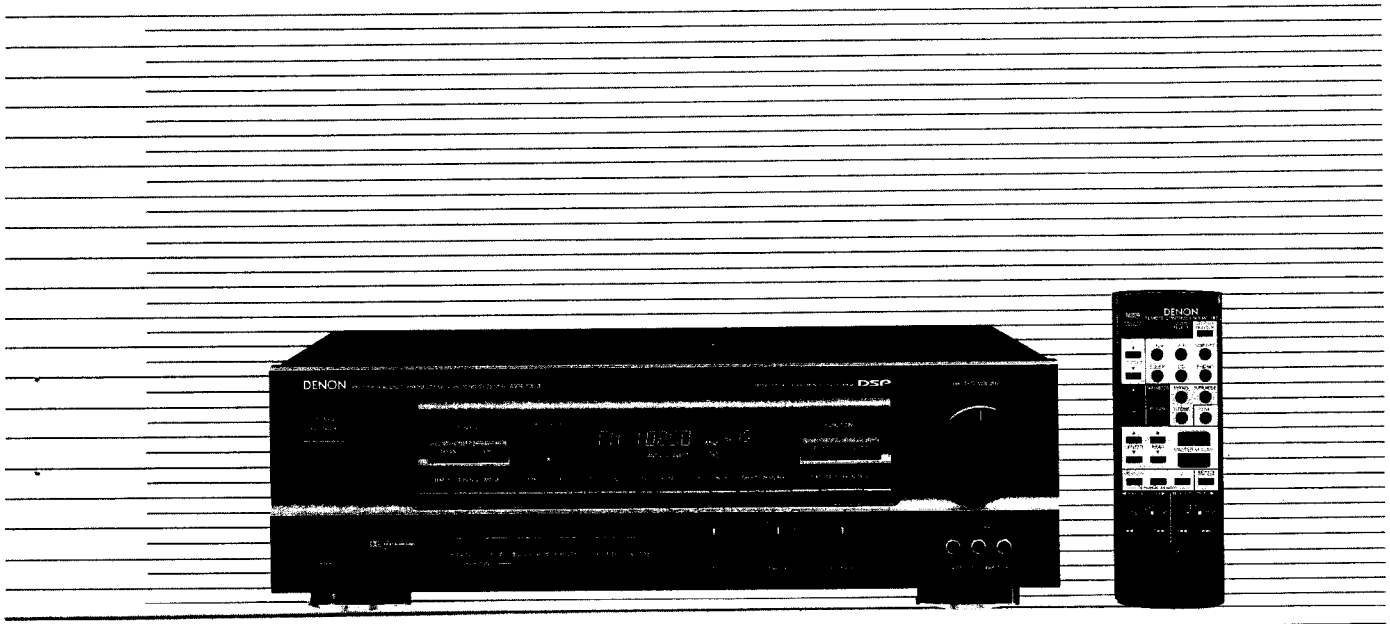
DENON

AV SURROUND RECEIVER

AVR-1000

OPERATING INSTRUCTIONS
BEDIENUNGSANLEITUNG
MODE D'EMPLOI
ISTRUZIONI PER L'USO
INSTRUCCIONES DE OPERACION
GEBRUIKSAANWIJZING
BRUKSANVISNING



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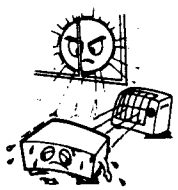
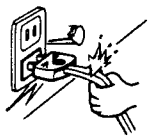
1 INTRODUCTION / EINFÜHRUNG / INTRODUCTION INTRODUZIONE / INTRODUCCIÓN / INLEIDING / INLEDNING

NOTE ON USE / HINWEISE ZUM GEBRAUCH / OBSERVATIONS RELATIVES A L'UTILISATION NOTE SULL'USO / NOTAS SOBRE EL USO / ALVORENS TE GEBRUIKEN / OBSERVERA

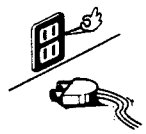


- Avoid high temperatures
  Allow for sufficient heat dispersion when installed on a rack.
- Vermeiden Sie hohe Temperaturen
  Beachten Sie, daß eine zureichende Luftzirkulation gewährleistet wird, wenn das Gerät auf ein Regal gestellt wird.
- Eviter des températures élevées
  Tenir compte d'une dispersion de chaleur suffisante lors de l'installation sur une étagère.
- Evitate di esporre l'unità a temperature alte.
  Assicuratevi che ci sia un'adeguata dispersione del calore quando installate l'unità in un mobile per componenti audio.
- Evite altas temperaturas
  Permite la suficiente dispersión del calor cuando está instalado en la consola.
- Vermijd hoge temperaturen.
  Zorg voor een degelijk hitteafvoer indien het apparaat op een rek wordt geplaatst.
- Undvik höga temperaturer.
  Se till att det finns möjlighet till god värmeavledning vid montering i ett rack.

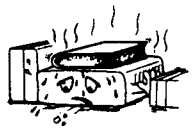


- Handle the power cord carefully.
  Hold the plug when unplugging the cord.
- Gehen Sie vorsichtig mit dem Netzkabel um.
  Halten Sie das Kabel am Stecker, wenn Sie den Stecker herausziehen.
- Manipuler le cordon d'alimentation avec précaution.
  Tenir la prise lors du débranchement du cordon.
- Manneggiate il filo di alimentazione con cura.
  Agite per la spina quando scollegate il cavo dalla presa.
- Maneje el cordón de energía con cuidado.
  Sostenga el enchufe cuando desconecte el cordón de energía.
- Hanteer het netsnoer voorzichtig.
  Houd het snoer bij de stekker vast wanneer deze moet worden aan- of losgekoppeld.
- Hantera nätkabeln varsamt.
  Håll i kabeln när den kopplas från eluttaget.

- Keep the set free from moisture, water, and dust.
- Halten Sie das Gerät von Feuchtigkeit, Wasser und Staub fern.
- Protéger l'appareil contre l'humidité, l'eau et la poussière.
- Tenete l'unità lontana dall'umidità, dall'acqua e dalla polvere.
- Mantenga el equipo libre de humedad, agua y polvo.
- Laat geen vochtigheid, water of stof in het apparaat binnendringen.
- Utsätt inte apparaten för fukt, vatten och damm.

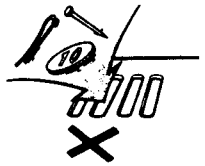


- Unplug the power cord when not using the set for long periods of time.
- Wenn das Gerät eine längere Zeit nicht verwendet werden soll, trennen Sie das Netzkabel vom Netzstecker.
- Débrancher le cordon d'alimentation lorsque l'appareil n'est pas utilisé pendant de longues périodes.
- Disinnestate il filo di alimentazione quando avete l'intenzione di non usare il filo di alimentazione per un lungo periodo di tempo.
- Desconecte el cordón de energía cuando no utilice el equipo por mucho tiempo.
- Neem altijd het netsnoer uit het stopkontakt wanneer het apparaat gedurende een lange periode niet wordt gebruikt.
- Koppla ur nätkabeln om apparaten inte kommer att användas i lång tid.

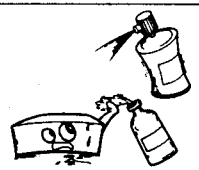


*(For sets with ventilation holes)

- Do not obstruct the ventilation holes.
- Die Belüftungsöffnungen dürfen nicht verdeckt werden.
- Ne pas obstruer les trous d'aération.
- Non coprite i fori di ventilazione.
- No obstruya los orificios de ventilación.
- De ventilatieopeningen mogen niet worden beblokkeerd.
- Täpp inte till ventilationsöppningarna.



- Do not let foreign objects in the set.
- Keine fremden Gegenstände in das Gerät kommen lassen.
- Ne pas laisser des objets étrangers dans l'appareil.
- E' importante che nessun oggetto è inserito all'interno dell'unità.
- No deje objetos extraños dentro del equipo.
- Laat geen vreemde voorwerpen in dit apparaat vallen.
- Se till att främmande föremål inte tränger in i apparaten.



- Do not let insecticides, benzene, and thinner come in contact with the set.
- Lassen Sie das Gerät nicht mit Insektiziden, Benzin oder Verdünnungsmitteln in Berührung kommen.
- Ne pas mettre en contact des insecticides, du benzène et un diluant avec l'appareil.
- Assicuratevvi che l'unità non venga in contatto con insetticidi, benzolo o solventi.
- No permita el contacto de insecticidas, gasolina y diluyentes con el equipo.
- Laat geen insektenverdelgende middelen, benzine of verfverdunner met dit apparaat in kontakt komen.
- Se till att inte insektsmedel på spraybruk, bensen och thinner kommer i kontakt med apparatens hölje.

- Never disassemble or modify the set in any way.
- Versuchen Sie niemals das Gerät auseinander zu nehmen oder auf jegliche Art zu verändern.
- Ne jamais démonter ou modifier l'appareil d'une manière ou d'une autre.
- Non smontate mai, né modificate l'unità in nessun modo.
- Nunca desarme o modifique el equipo de ninguna manera.
- Nooit dit apparaat demonteren of op andere wijze modifiëren.
- Ta inte isär apparaten och försök inte bygga om den.

• NUR FÜR EUROPÄISCHE MODELLE

Konformitätserklärung

Die DENON Electronic GmbH
Halskestraße 32
4030 Ratingen 1

Erklärt als Hersteller/Importeur, daß das in dieser Bedienungsanleitung beschriebene Gerät den Technischen Vorschriften für Ton- und Fernseh-Rundfunkempfänger nach der Amtsblattverfügung 868/1989 (Amtsblatt des Bundesministers für Post und Telekommunikation vom 31. 8. 1989) entspricht.

• FOR UNITED KINGDOM MODEL ONLY

CONNECTING THE MAINS PLUG:
This unit operates from a 240V ac 50 Hz mains supply.

Fit a proper mains plug to the mains lead of this equipment. If a 13 amp (BS1363) plug is used, a 5 amp fuse must be fitted. The 13 amp fuse supplied in a new plug must NOT be used. If any other type of plug is used, a 5 amp fuse must to fitted either in the plug or adaptor or at the distribution board.

IMPORTANT

The wires in the mains lead are coloured in accordance with the following code:
Blue: Neutral
Brown: Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured black.
The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured red.

DO NOT MAKE ANY CONNECTION TO THE LARGER PIN MARKED WITH THE LETTER E OR BY THE SYMBOL ⏚ OR COLOURED GREEN OR GREEN-AND-YELLOW.

Disconnect the mains plug from the supply socket when not in use.

"SERIAL NO. _____
PLEASE RECORD UNIT SERIAL NUMBER ATTACHED TO THE REAR OF THE CABINET FOR FUTURE REFERENCE"

2 NAMES OF PARTS
(Front Panel)

BEZEICHNUNG DER TEILE
(Frontplatte)

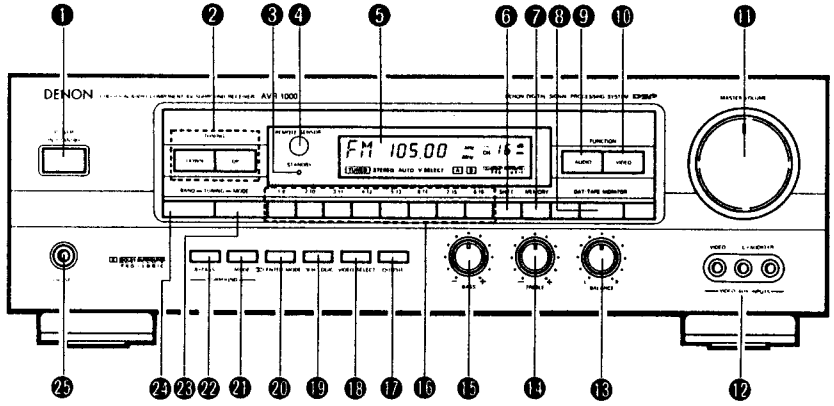
NOMENCLATURE
(Panneau avant)

OMENCLATURA
(Pannello anteriore)

NOMBRE DE LAS PARTES
(Panel delantero)

NAMEN VAN ONDERDELEN
(Voorpaneel)

DE OLIKA DELARNAS NAMN
(Frontpanel)



FOR ENGLISH READERS
1. POWER BUTTON
2. TUNING BUTTON
3. STANDBY LED
4. REMOTE CONTROL SENSOR
5. MFD (Multi-function fluorescent display)
6. SHIFT BUTTON
7. MEMORY BUTTON
8. DAT/TAPE MONITOR BUTTON
9. AUDIO FUNCTION BUTTON
10. VIDEO FUNCTION BUTTON
11. MASTER VOLUME control
12. VIDEO AUX INPUTS
13. BALANCE control
14. TREBLE control
15. BASS control
16. PRESET CHANNEL 1~16)
17. OUTPUT BUTTON
18. VIDEO SELECT BUTTON
19. 3CH. LOGIC BUTTON
20. ⊡⊡CENTER MODE BUTTON
21. SURROUND MODE BUTTON
22. BYPASS BUTTON
23. TUNING MODE BUTTON
(Tuning Mode Selector Switch)
24. TUNING BAND BUTTON
(Tuning Band Selector Switch)
25. PHONES JACK

FÜR DEUTSCHE LESER
1. Netztaste (POWER)
2. Abstimmtaste (TUNING)
3. STANDBY-LED
4. Fernbedienungssensor (REMOTE CONTROL SENSOR)
5. MFD (Multifunktions-Fluoreszenzdisplay)
6. Umschalttaste (SHIFT)
7. Speichertaste (MEMORY)
8. DAT-/Cassettendeck-Überwachungstaste (DAT/TAPE MONITOR)
9. AUDIO-Funktionstaste (AUDIO FUNCTION)
10. VIDEO-Funktionstaste (VIDEO FUNCTION)
11. Hauptlautstärkeregler (MASTER VOLUME)
12. Video-Zusatzeingänge (VIDEO AUX INPUT)
13. BALANCE-Regler (BALANCE)
14. Höhenregler (TREBLE)
15. Tiefenregler (BASS)
16. Vorwahlkanal-Taste (PRESET CHANNEL) (1~16)
17. Ausgangstaste (OUTPUT)
18. Video-Wahltaste (VIDEO SELECT)
19. 3CH LOGIC-Taste
20. ⊡⊡Modus-Taste für die mittleren Lautsrpecher (CENTER MODE)
21. Surround-Modus-Taste (SURROUND MODE)
22. Umgehungstaste (BYPASS)
23. Abstimm-Modus-Taste (TUNING MODE)
(Abstimm-Modus-Wähler)
24. Wellenbereich-Wahltaste (TUNING BAND)
(Wellenbereich-Wähler)
25. Kopfhörerbuchse (PHONES)

POUR LES LECTEURS FRANCAIS
1. TOUCHE D'ALIMENTATION (POWER)
2. TOUCHE DE SYNTONISATION (TUNING)
3. TEMOIN DE VEILLE (STANDBY LED)
4. DETECTEUR DE TELECOMMANDE (REMOTE CONTROL SENSOR)
5. MFD (Affichage fluorescent multi-fonction)
6. TOUCHE DE DECALAGE (SHIFT)
7. TOUCHE DE MEMOIRE (MEMORY)
8. TOUCHE DAT/CONTROLE DE BANDE (DAT/TAPE MONITOR)
9. TOUCHE DE FONCTION AUDIO (AUDIO FUNCTION)
10. TOUCHE DE FONCTION VIDEO (VIDEO FUNCTION)
11. Commande de VOLUME GLOBAL (MASTER VOLUME)
12. ENTREES AUXILIAIRES VIDEO (VIDEO AUX INPUTS)
13. Commande d'équilibre (BALANCE)
14. Commande des aiguës (TREBLE)
15. *Commande de graves (BASS)*
16. CANAL PREREGLE (PRESET CHANNEL) (1~16)
17. TOUCHE DE SORTIE (OUTPUT)
18. TOUCHE DE SELECTION VIDEO (VIDEO SELECT)
19. TOUCHE LOGIQUE 3 CANAUX (3CH. LOGIC)
20. TOUCHE DE MODE CENTRAL (⊡⊡CENTER MODE)
21. TOUCHE DE MODE D'AMBIANCE (SURROUND MODE)
22. TOUCHE DE DERIVATION (BYPASS)
23. TOUCHE DE MODE DE SYNTONISATION (TUNING MODE)
(Sélecteur de mode de syntonisation)
24. TOUCHE DE GAMME DE SYNTONISATION (TUNING BAND)
(Sélecteur de gamme de syntonisation)
25. PRISE CASQUE (PHONES)

PER IL LETTORE ITALIANO
1. Tasto di accensione (POWER)
2. Tasto di sintonizzazione (TUNING)
3. LED di attesa (STANDBY)
4. SENSORE DI CONTROLLO A DISTANZA (REMOTE CONTROL SENSOR)
5. Display MFD (display multifunzione fluorescente)
6. Tasto di spostamento (SHIFT)
7. Tasto di memorizzazione (MEMORY)
8. Tasto di monitoraggio della piastra DAT/piastra a cassette (DAT/TAPE MONITOR)
9. Tasto di funzione audio (AUDIO FUNCTION)
10. Tasto di funzione video (VIDEO FUNCTION)
11. Controllo del volume principale (MASTER VOLUME)
12. Prese di ingresso VIDEO AUX (VIDEO AUX INPUT)
13. Controllo del bilanciamento (BALANCE)
14. Controllo degli acuti (TREBLE)
15. Controllo dei bassi (BASS)
16. Canale di preselezione (PRESET CHANNEL) (1~16)
17. Tasto di uscita (OUTPUT)
18. Tasto di selezione video (VIDEO SELECT)
19. Tasto 3CH. LOGIC
20. Tasto del modo centrale (⊡⊡CENTER MODE)
21. Tasto del modo surround (SURROUND MODE)
22. Tasto BYPASS
23. Tasto del modo di sintonizzazione (TUNING MODE)
24. Tasto della banda di sintonizzazione (TUNING BAND SELECT)
25. Presa delle cuffie (PHONES)

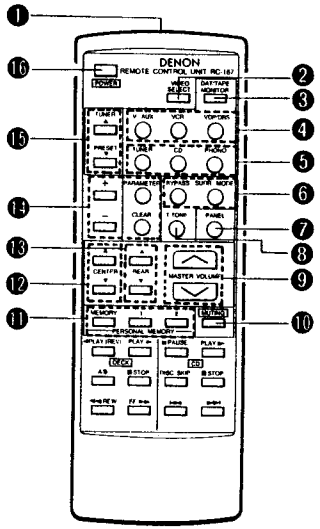
PARA LECTORES DE ESPAÑOL
1. INTERRUPTOR DE ALIMENTACION (POWER)
2. BOTON DE SINTONIZACION (TUNING)
3. LED DE MODO DE ESPERA (STANDBY)
4. SENSOR DE CONTROL REMOTO (REMOTE CONTROL SENSOR)
5. MFD (visualizador fluorescente multifunción)
6. BOTON DE CAMBIO (SHIFT)
7. BOTON DE MEMORIA (MEMORY)
8. BOTON DAT/TAPE MONITOR (DAT/TAPE MONITOR)
9. BOTON SELECTOR DE ENTRADA DE AUDIO (AUDIO FUNCTION)
10. BOTON SELECTOR DE ENTRADA DE VIDEO (VIDEO FUNCTION)
11. Control principal de volumen (MASTER VOLUME)
12. ENTRADAS AUXILIARES DE VIDEO (VIDEO AUX INPUT)
13. Control de balance (BALANCE)
14. Control de tonos agudos (TREBLE)
15. Control de tonos bajos (BASS)
16. BOTONES DE PRESINTONIZACION (PRESET CHANNEL) (1~16)
17. BOTON DE SALIDA (OUTPUT)
18. BOTON VIDEO SELECT
19. BOTON 3CH. LOGIC
20. BOTON SELECTOR DE MODO CENTRAL (⊡⊡CENTER MODE)
21. BOTON SELECTOR DE MODO DE SONIDO ENVOLVENTE (SURROUND MODE)
22. BOTON DE OMISION (BYPASS)
23. Interruptor selector de modo de sintonización (TUNING MODE)
24. Interruptor selector de banda de sintonización (TUNING BAND)
25. CONECTOR PARA AURICULARES (PHONES)

VOOR NEDERLANDSTALIGE LEZERS
1. Spanningstoets (POWER)
2. Afstemtoets (TUNING)
3. Standby-aanduiding (STANDBY LED)
4. Afstandsbedieningssensor (REMOTE CONTROL SENSOR)
5. MFD (Multifunktionele lichtgevende display)
6. Wisseltoets (SHIFT)
7. Geheugentoets (MEMORY)
8. DAT/bandmeeluistertoets (DAT/TAPE MONITOR)
9. Audiofunktietoets (AUDIO FUNCTION)
10. Videofunktietoets (VIDEO FUNCTION)
11. Hoofdvolumeregelaar (MASTER VOLUME)
12. VIDEO AUX-ingangen (VIDEO AUX INPUT)
13. Balansregelaar (BALANCE)
14. Hoge tonenregelaar (TREBLE)
15. Lage tonenregelaar (BASS)
16. Voorkeuzekanaal (PRESET CHANNEL) (1~16)
17. Uitgangstoets (OUTPUT)
18. Videokeuzetoets (VIDEO SELECT)
19. 3-kanaals logic-toets (3CH. LOGIC)
20. Middenstandtoets (⊡⊡CENTER MODE)
21. Surroundstandtoets (SURROUND MODE)
22. Skiptoets (BYPASS)
23. Afstemstandtoets (TUNING MODE)
(Afstemstand-keuzeschakelaar)
24. Afstemgolfbandtoets (TUNING BAND)
(Afstemgolfband-keuzeschakelaar)
25. Hoofdtelefoonaansluiting (PHONES)

FÖR SVENSKA LÄSARE
1. STRÖMBRYTARE (POWER)
2. AVSTÄMNINGSTANGENT (TUNING)
3. BEREDSKAPSINDIKATOR (STANDBY)
4. FJÄRRKONTROLLSENSOR (REMOTE CONTROL SENSOR)
5. MFD (Multidisplay)
6. SKIFTTANGENT (SHIFT)
7. MINNESTANGENT (MEMORY)
8. DAT-/DÄCKVÄLJARE (DAT/TAPE MONITOR)
9. AUDIOFUNKTIONSVÄLJARE (AUDIO FUNCTION)
10. VIDEOFUNKTIONSVÄLJARE (VIDEO FUNCTION)
11. LJUDSTYRKEKONTROLL (MASTER VOLUME)
12. RESERVINGÅNGAR FÖR VIDEOBRUK (VIDEO AUX INPUT)
13. BALANSKONTROLL (BALANCE)
14. DISKANTKONTROLL (TREBLE)
15. BASKONTROLL (BASS)
16. SNABBVALSTANGENTER (PRESET CHANNEL) (1~16)
17. HÖGTALAROMKOPPLARE (OUTPUT)
18. VIDEOVÄLJARE (VIDEO SELECT)
19. TANGENT FÖR 3-KANALSLOGIK (3CH. LOGIC)
20. MITTKANALSTANGENT (⊡⊡CENTER MODE)
21. SURROUND-tangent (SURROUND MODE)
22. FÖRBIKOPPLINGSTANGENT (BYPASS)
23. TANGENT FÖR VAL AV AVSTÄMNINGSMETOD (TUNING MODE)
24. FREKVENSBANDVÄLJARE (TUNING BAND)
25. HÖRLURSUTTAG (PHONES)

(Remote Control Unit)
(Fernbedienungsgerät)
(Télécommande)
(Telecomando)

(Unidad de Control Remoto)
(Afstandsbediening)
(Fjärrkontroll)



FOR ENGLISH READERS

❶ TRANSMITTING WINDOW
❷ VIDEO SELECT BUTTON
❸ DAT/TAPE MONITOR BUTTON
❹ VIDEO FUNCTION BUTTON
❺ AUDIO FUNCTION BUTTON
❻ SURROUND BUTTON
❼ ☆PANEL BUTTON
❽ ☆TEST TONE BUTTON
❾ MASTER VOLUME BUTTON
❿ ☆MUTING BUTTON
⓫ ☆PERSONAL MEMORY BUTTON
⓬ ☆CENTER LEVEL ADJUSTMENT BUTTON
⓭ ☆REAR LEVEL ADJUSTMENT BUTTON
⓮ ☆DSP ADJUSTMENT BUTTON
⓯ TUNER PRESET BUTTON
⓰ POWER BUTTON

Buttons marked " ☆ " indicate functions only available on the remote control unit.

FÜR DEUTSCHE LESER

❶ Übermittlungsfenster (TRANSMITTING WINDOW)
❷ Video-Wahltaste (VIDEO SELECT)
❸ DAT-/Cassettendeck-Überwachungstaste (DAT/TAPE MONITOR)
❹ VIDEO-Funktionstaste (VIDEO FUNCTION)
❺ AUDIO-Funktionstaste (AUDIO FUNCTION)
❻ SURROUND-Taste (SURROUND)
❼ ☆Frontplatten-Schalter (PANEL)
❽ ☆Testton-Taste (TEST TONE)
❾ Hauptlautstärketaste (MASTER VOLUME)
❿ ☆Stummschaltungstaste (MUTING)
⓫ ☆Taste für den persönlichen Speicher (PERSONAL MEMORY)
⓬ ☆Pegel-Einstelltaste für die mittleren Lautsprecher (CENTER LEVEL)
⓭ ☆Pegel-Einstelltaste für die hinteren Lautsprecher (REAR LEVEL)
⓮ ☆DSP-Einstelltaste (DSP ADJUSTMENT)
⓯ Tuner-Vorwahltaste (TUNER PRESET)
⓰ Netztaste (POWER)

Die mit " ☆ " markierten Tasten zeigen Funktionen an, die nur mit Hilfe des Fernbedienungsgerätes aktiviert werden können.

POUR LES LECTEURS FRANCAIS

❶ FENETRE D'EMISSION (TRANSMITTING WINDOW)
❷ TOUCHE DE SELECTION VIDEO (VIDEO SELECT)
❸ TOUCHE DAT/CONTROLE DE BANDE (DAT/TAPE MONITOR)
❹ TOUCHE DE FONCTION VIDEO (VIDEO FUNCTION)
❺ TOUCHE DE FONCTION AUDIO (AUDIO FUNCTION)
❻ TOUCHE D'AMBIANCE (SURROUND)
❼ ☆TOUCHE DE PANNEAU (PANEL)
❽ ☆TOUCHE DE TONALITE TEST (TEST TONE)
❾ TOUCHE DE VOLUME GLOBAL (MASTER VOLUME)
❿ ☆TOUCHE DE SOURDINE (MUTING)
⓫ ☆TOUCHE DE MEMOIRE PERSONNALISEE (PERSONAL MEMORY)
⓬ ☆TOUCHE DE REGLAGE DE NIVEAU CENTRAL (CENTER LEVEL)
⓭ ☆TOUCHES DE REGLAGE DE NIVEAU ARRIERE (REAR LEVEL)
⓮ ☆TOUCHES DE REGLAGE DSP (DSP ADJUSTMENT)
⓯ TOUCHE DE PREREGLAGE DE TUNER (TUNER PRESET)
⓰ TOUCHE D'ALIMENTATION (POWER)

Les touches marquées " ☆ " indiquent des fonctions disponibles seulement sur la télécommande.

PER IL LETTORE ITALIANO

❶ FINESTRELLA DI TRASMISSIONE (TRANSMITTING WINDOW)
❷ TASTO DI SELEZIONE VIDEO (VIDEO SELECT)
❸ TASTO DI MONITORAGGIO DELLA PIASTRA DAT/ PIASTRA A CASSETTE (DAT/TAPE MONITOR)
❹ TASTO DI FUNZIONE VIDEO (VIDEO FUNCTION)
❺ TASTO DI FUNZIONE AUDIO (AUDIO FUNCTION)
❻ TASTO SURROUND (SURROUND)
❼ ☆TASTO DEL PANNELLO (PANEL)
❽ ☆TASTO DEL TONO DI PROVA (TEST TONE)
❾ TASTO DEL VOLUME PRINCIPALE (MASTER VOLUME)
❿ ☆TASTO DI SILENZIAMENTO AUDIO (MUTING)
⓫ ☆TASTO DELLA MEMORIA PERSONALE (PERSONAL MEMORY)
⓬ ☆TASTO DI REGOLAZIONE DEL LIVELLO CENTRALE (CENTER LEVEL)
⓭ ☆TASTO DI REGOLAZIONE DEL LIVELLO POSTERIORE (REAR LEVEL)
⓮ ☆TASTO DI REGOLAZIONE DEL DISPLAY (DSP ADJUSTMENT)
⓯ TASTO DI PRESELEZIONE DEL SINTONIZZATORE (TUNER PRESET)
⓰ TASTO DI ACCENSIONE (POWER)

I tasti che recano il marchio " ☆ " indicano funzioni che sono disponibili solo usando il telecomando.

PARA LECTORES DE ESPAÑOL

❶ VENTANILLA TRANSMISORA (TRANSMITTING WINDOW)
❷ BOTON VIDEO SELECT (VIDEO SELECT)
❸ BOTON DAT/TAPE MONITOR (DAT/TAPE MONITOR)
❹ BOTON SELECTOR DE ENTRADA DE VIDEO (VIDEO FUNCTION)
❺ BOTON SELECTOR DE ENTRADA DE AUDIO (AUDIO FUNCTION)
❻ BOTON DE SONIDO ENVOLVENTE (SURROUND)
❼ ☆BOTON DE INDICACION EN VISUALIZADOR (PANEL)
❽ ☆BOTON DE TONO DE PRUEBA (TEST TONE)
❾ CONTROL PRINCIPAL DE VOLUMEN (MASTER VOLUME)
❿ ☆BOTON DE SILENCIAMIENTO (MUTING)
⓫ ☆BOTON DE MEMORIA PERSONAL (PERSONAL MEMORY)
⓬ ☆BOTON DE AJUSTE DE NIVEL CENTRAL (CENTER LEVEL)
⓭ ☆BOTON DE AJUSTE DE NIVEL TRASERO (REAR LEVEL)
⓮ ☆BOTON DE AJUSTE DE DSP (DSP ADJUSTMENT)
⓯ BOTON DE PRESINTONIZACION (TUNER PRESET)
⓰ INTERRUPTOR DE ALIMENTACION (POWER)

Los botones marcados " ☆ " indican funciones sólo disponibles en la unidad de control remoto.

VOOR NEDERLANDSTALIGE LEZERS

❶ ZENDVENSTERTJE (TRANSMITTING WINDOW)
❷ Videokeuzetoets (VIDEO SELECT)
❸ DAT/bandmeeluistertoets (DAT/TAPE MONITOR)
❹ Videofunktietoets (VIDEO FUNCTION)
❺ Audiofunktietoets (AUDIO FUNCTION)
❻ Surroundtoets (SURROUND)
❼ ☆Paneeltoets (PANEL)
❽ ☆Testtoontoets (TEST TONE)
❾ Hoofdvolumetoets (MASTER VOLUME)
❿ ☆Dempingstoets (MUTING)
⓫ ☆Persoonlijk geheugentoets (PERSONAL MEMORY)
⓬ ☆Middenniveau-insteltoets (CENTER LEVEL)
⓭ ☆Achterniveau-insteltoets (REAR LEVEL)
⓮ ☆Insteltoets digitale geluidsprocessor (DSP ADJUSTMENT)
⓯ Tuner-voorkeuzetoets (TUNER PRESET)
⓰ Spanningstoets (POWER)

De met " ☆ " gemerkte toetsen duiden funkties aan die enkel met de afstandsbediening kunnen worden gebruikt.

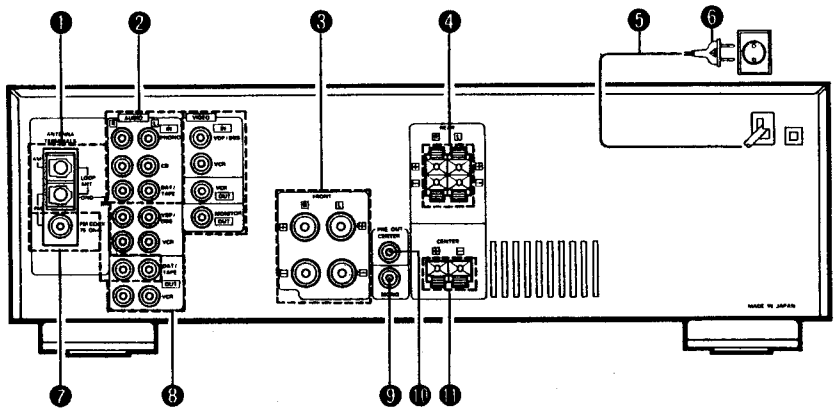
FÖR SVENSKA LÄSARE

❶ SÄNDARFÖNSTER (TRANSMITTING WINDOW)
❷ VIDEOVÄLJARE (VIDEO SELECT)
❸ DAT-/DÄCKVÄLJARE (DAT/TAPE MONITOR)
❹ VIDEOFUNKTIONSVÄLJARE (VIDEO FUNCTION)
❺ AUDIOFUNKTIONSVÄLJARE (AUDIO FUNCTION)
❻ SURROUND-TANGENT (SURROUND)
❼ ☆PANEL-TANGENT (PANEL)
❽ ☆TESTTONTANGENT (TEST TONE)
❾ LJUDSTYRKEKONTROLL (MASTER VOLUME)
❿ ☆DÄMPTANGENT (MUTING)
⓫ ☆TANGENT FÖR ANVÄNDARMINNE (PERSONAL MEMORY)
⓬ ☆JUSTERTANGENT FÖR MITTKANAL (CENTER LEVEL)
⓭ ☆JUSTERTANGENT FÖR BAKRE KANAL (REAR LEVEL)
⓮ ☆TANGENT FÖR JUSTERING AV SIGNALPROCESSORN (DSP ADJUSTMENT)
⓯ SNABBVALSTANGENT (TUNER PRESET)
⓰ STRÖMBRYTARE (POWER)

Tangenter märkta " ☆ " motsvarar funktioner som bara kan utnyttjas via fjärrkontrollen.

(Rear Panel)
(Rückseite)
(Panneau arrière)
(Pannello posteriore)

(Panel trasero)
(Achterpaneel)
(Bakpanelen)



FOR ENGLISH READERS
1. AM ANTENNA TERMINALS
2. AUDIO INPUT/OUTPUT JACKS
3. FRONT SPEAKER TERMINALS
4. REAR SPEAKER TERMINALS
5. AC CORD
6. AC PLUG
7. FM ANTENNA TERMINALS
8. VIDEO INPUT/OUTPUT JACKS
9. MONO OUT JACK
10. PREOUT CENTER JACK
11. CENTER SPEAKER TERMINALS

FÜR DEUTSCHE LESER
1. MW-Antennenklemmen (AM ANTENNA)
2. AUDIO-Eingangs-/Ausgangsbuchsen (AUDIO INPUT/OUTPUT)
3. Klemmen für die vorderen Lautsprecher (FRONT SPEAKER)
4. Klemmen für die hinteren Lautsrpecher (REAR SPEAKER)
5. Wechselstromkabel (AC CORD)
6. Wechselstromstecker (AC PLUG)
7. UKW-Antennenklemmen (FM ANTENNA)
8. VIDEO-Eingangs-/Ausgangsbuchsen (VIDEO INPUT/OUTPUT)
9. MONO-Ausgangsbuchse (MONO OUT)
10. Buchse für den Vorausgang der mittleren Lautsprecher (PREOUT CENTER)
11. Klemmen für die mittleren Lautsprecher (CENTER SPEAKER)

POUR LES LECTEURS FRANCAIS
1. BORNES D'ANTENNE AM (AM ANTENNA)
2. PRISES D'ENTREE/SORTIE AUDIO (AUDIO INPUT/OUTPUT)
3. BORNES D'ENCEINTE FRONTALES (FRONT SPEAKER)
4. BORNES D'ENCEINTE ARRIERE (REAR SPEAKER)
5. CORDON SECTEUR (AC CORD)
6. FICHE SECTEUR (AC PLUG)
7. BORNES D'ANTENNE FM (FM ANTENNA)
8. PRISES D'ENTREE/SORTIE VIDEO (VIDEO INPUT/OUTPUT)
9. PRISE DE SORTIE MONO (MONO OUT)
10. PRISE DE SORTIE PREAMPLIFIEE CENTRALE (PREOUT CENTER)
11. BORNES D'ENCEINTE CENTRALE (CENTER SPEAKER)

PER IL LETTORE ITALIANO
1. TERMINALI DELL'ANTENNA AM (AM ANTENNA)
2. PRESE DI USCITA/INGRESSO AUDIO (AUDIO INPUT/OUTPUT)
3. TERMINALI DEGLI ALTOPARLANTI ANTERIORI (FRONT SPEAKER)
4. TERMINALI DEGLI ALTOPARLANTI POSTERIORI (REAR SPEAKER)
5. FILO CA (AC CORD)
6. SPINA CA (AC PLUG)
7. TERMINALI DELL'ANTENNA FM (FM ANTENNA)
8. PRESE DI INGRESSO/USCITA VIDEO (VIDEO INPUT/OUTPUT)
9. PRESA DI USCITA MONO (MONO OUT)
10. PRESA DI USCITA CENTRALE DEL PREAMPLIFICATORE (PREOUT CENTER)
11. TERMINALI DELL'ALTOPARLANTE CENTRALE (CENTER SPEAKER)

PARA LECTORES DE ESPAÑOL
1. TERMINALES DE ANTENA DE AM (AM ANTENNA)
2. CONECTORES DE ENTRADA/SALIDA DE AUDIO (AUDIO INPUT/OUTPUT)
3. TERMINALES DE ALTAVOCES DELANTEROS (FRONT SPEAKERS)
4. TERMINALES DE ALTAVOCES TRASEROS (REAR SPEAKER)
5. CABLE DE ALIMENTACION DE CA (AC CORD)
6. CLAVIJA DE CA (AC PLUG)
7. TERMINALES DE ANTENA DE FM (FM ANTENNA)
8. CONECTORES DE ENTRADA/SALIDA DE VIDEO (VIDEO INPUT/OUTPUT)
9. CONECTOR DE SALIDA MONOAURICULAR (MONO OUT)
10. CONECTOR DE SALIDA DE PREAMPLIFICADOR/ CANAL CENTRAL (PREOUT CENTER)
11. TERMINALES DE ALTAVOZ CENTRAL (CENTER SPEAKER)

VOOR NEDERLANDSTALIGE LEZERS
1. AM-antenne-aansluitpunten (AM ANTENNA)
2. Audio-ingangs-/uitgangsaansluitingen (AUDIO INPUT/OUTPUT)
3. Voorste luidspreker-aansluitpunten (FRONT SPEAKER)
4. Achterste luidspreker-aansluitpunten (REAR SPEAKER)
5. Netsnoer (AC CORD)
6. Netstekker (AC PLUG)
7. FM-antenne-aansluitpunten (FM ANTENNA)
8. Video-ingangs-/uitgangsaansluitingen (VIDEO INPUT/OUTPUT)
9. Mono-uitgangsaansluiting (MONO OUT)
10. Voorste uitgang middenaansluiting (PREOUT CENTER)
11. Middenluidspreker-aansluitpunten (CENTER SPEAKER)

FÖR SVENSKA LÄSARE
1. ANSLUTNINGAR FÖR AM-ANTENN (AM ANTENNA)
2. AUDIOIN- OCH UTGÅNGAR (AUDIO IN/OUT)
3. FRÄMRE HÖGTALARUTGÅNGAR (FRONT SPEAKERS)
4. BAKRE HÖGTALARUTGÅNGAR (REAR SPEAKERS)
5. NÄTKABEL (AC CORD)
6. STICKPROPP (AC PLUG)
7. ANSLUTNINGAR FÖR FM-ANTENN (FM ANTENNA)
8. VIDEOIN- OCH UTGÅNGAR (VIDEO IN/OUT)
9. MONOUTGÅNG (MONO OUT)
10. FÖRFÖRSTÄRKARUTGÅNG MITT (PREOUT CENTER)
11. MITTHÖGTALARUTGÅNGAR (CENTER SPEAKER)

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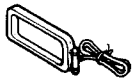
DENON SERVICE NETWORK 104, 105

■ **We greatly appreciate your purchase of the AVR-1000.**
■ **To be sure you take maximum advantage of all the features the AVR-1000 has to offer, read these instructions carefully and use the set properly. Be sure to keep this manual for future reference should any questions or problems arise.**

• ACCESSORIES

Check that the following parts are included in addition to the main unit:

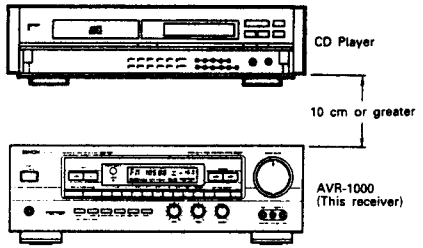
① Operating instructions 1
② Warranty 1
③ Remote control unit (RC-167) 1
④ R6P/AA batteries 2
⑤ AM loop antenna 1
⑥ FM indoor antenna 1



• INSTALLATION PRECAUTIONS

Using this receiver or other electronic equipment containing microprocessors simultaneously with a tuner or TV may result in noise in the sound or picture.
If this should happen, take the following steps:
- Install the receiver as far as possible from the tuner or TV set.
- Keep the antenna lines of the tuner or TV as far as possible from the receiver's power cord and connection cables.
- This problem is especially frequent when using indoor antennas or 300 ohm feeder lines. We recommend using outdoor antennas and 75 ohm coaxial cables.

A note on stacking

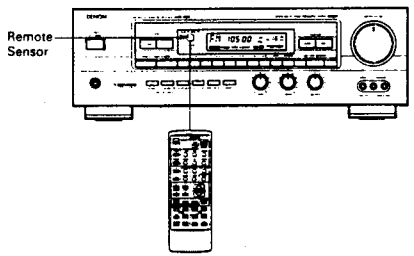


For cooling purposes, do not place another AV component directly on top of the receiver. Be sure to leave a space of at least 10 cm.

3 REMOTE CONTROL UNIT

Following the procedure outlined below, insert the batteries before using the remote control unit.

■ Range of operation of the remote control unit



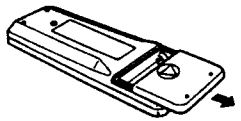
Point the remote control unit at the remote control sensor as shown on the diagram at the left.

NOTES:

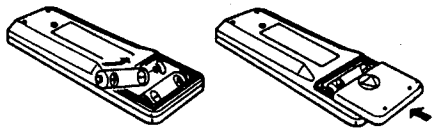
- The remote control unit can be used from a straight distance of approximately 7 meters, but this distance will shorten or operation will become difficult if there are obstacles between the remote control unit and the remote control sensor, if the remote control sensor is exposed to direct sunlight or other strong light, or if operated from an angle.
- Neon signs or other devices emitting pulse-type noise nearby may result in malfunction, so keep the set as far away from such devices as possible.

■ Inserting the batteries

1. Open the bottom cover of the remote control unit and remove the battery cover.



2. Insert the two R6P/AA batteries, matching the ⊕ and ⊖ marks on the batteries with those in the case. Close the bottom cover until it clicks shut.

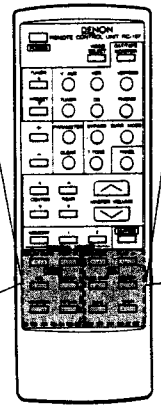


NOTES

- Use only AA, R6P, UM-3 batteries for replacement.
- Be sure the polarities are correct. (See the illustration inside the battery compartment.)
- Remove the batteries if the remote control transmitter will not be used for an extended period of time.
- If batteries leak, dispose of them immediately. Avoid touching the leaked material or letting it come in contact with clothing, etc. Clean the battery compartment thoroughly before installing new batteries.

■ System codes

The system codes for Denon tape decks and CD players are set in this remote control unit.



Tape deck system buttons
With these buttons, a Denon remote controllable tape deck can be controlled directly.
For details, refer to the tape deck's operating instructions. Note that operation may not be possible for some models.

- ▶ : Forward play
- ◀ : Reverse play
- ■ : Stop
- ◀◀ : Rewind
- ▶▶ : Fast-forward
- A/B : Switching between decks A and B for double decks

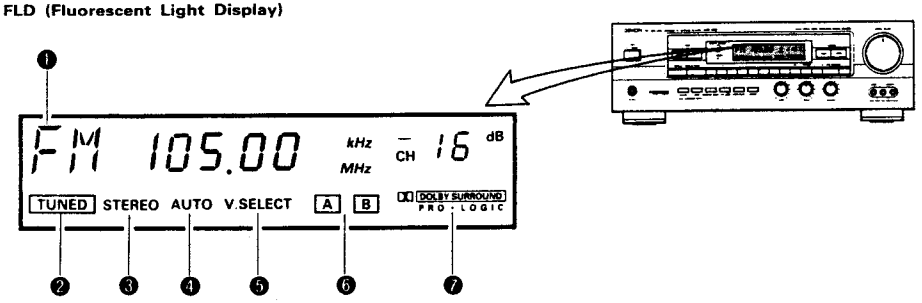
CD system buttons
With these buttons, a Denon remote controllable CD player can be controlled directly.
For details, refer to the CD player's operating instructions. Note that operation may not be possible for some models.

- ▶ : Play
- ❚❚ : Pause
- ■ : Stop
- ⏮ and ⏭ : Auto search (reverse and forward)
- DISC SKIP : CD changer, disc skip

4 MULTI FUNCTION DISPLAY (MFD)

The MFD indicates the operating modes when operations are performed and when PANEL button is pressed.

■ FLD (Fluorescent Light Display)



❶ MULTI FUNCTION DISPLAY
This displays a maximum of 9 characters.
Normally the reception frequency is displayed when the function is set to tuner, and the surround mode is displayed when the function is set to other positions. The display also indicates various other information according to the buttons pressed.

❷ TUNED (TUNED indicator)
This indicator lights when broadcast signals are received.

❸ STEREO (Stereo Indicator)
The STEREO indicator will automatically light up when a stereo broadcast is received.

❹ AUTO TUNING (AUTO TUNING Indicator)
This indicator lights when the auto tuning mode is selected by pressing the TUNING MODE button.

❺ V. SELECT (VIDEO INPUT SELECT Indicator)
This indicator lights when the video monitor output is fixed in the video input select mode.

❻ SHIFT (A B Indicator)
The preset channel which is selected with the Shift Button is displayed by the SHIFT A or B.

❼ DOLBY SURROUND Indicator
This indicator lights when DOLBY PRO LOGIC is selected by pressing the SURROUND MODE button.

■ To check the settings of the different modes:

1. Press the PANEL button.

Remote control unit

Either hold the PANEL button in or press it repeatedly to display the settings for the different modes.

■ FLD OFF

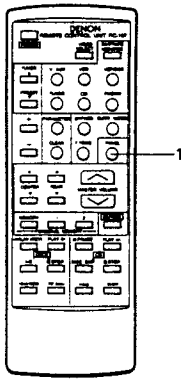
Turning the FLD off:

1. Press and hold in the PANEL button on the remote control unit.

(The FLD display changes continuously and finally turns off. Now when a button is pressed, the related display appears for a few seconds then turns off automatically.)

2. Turning the FLD back on:

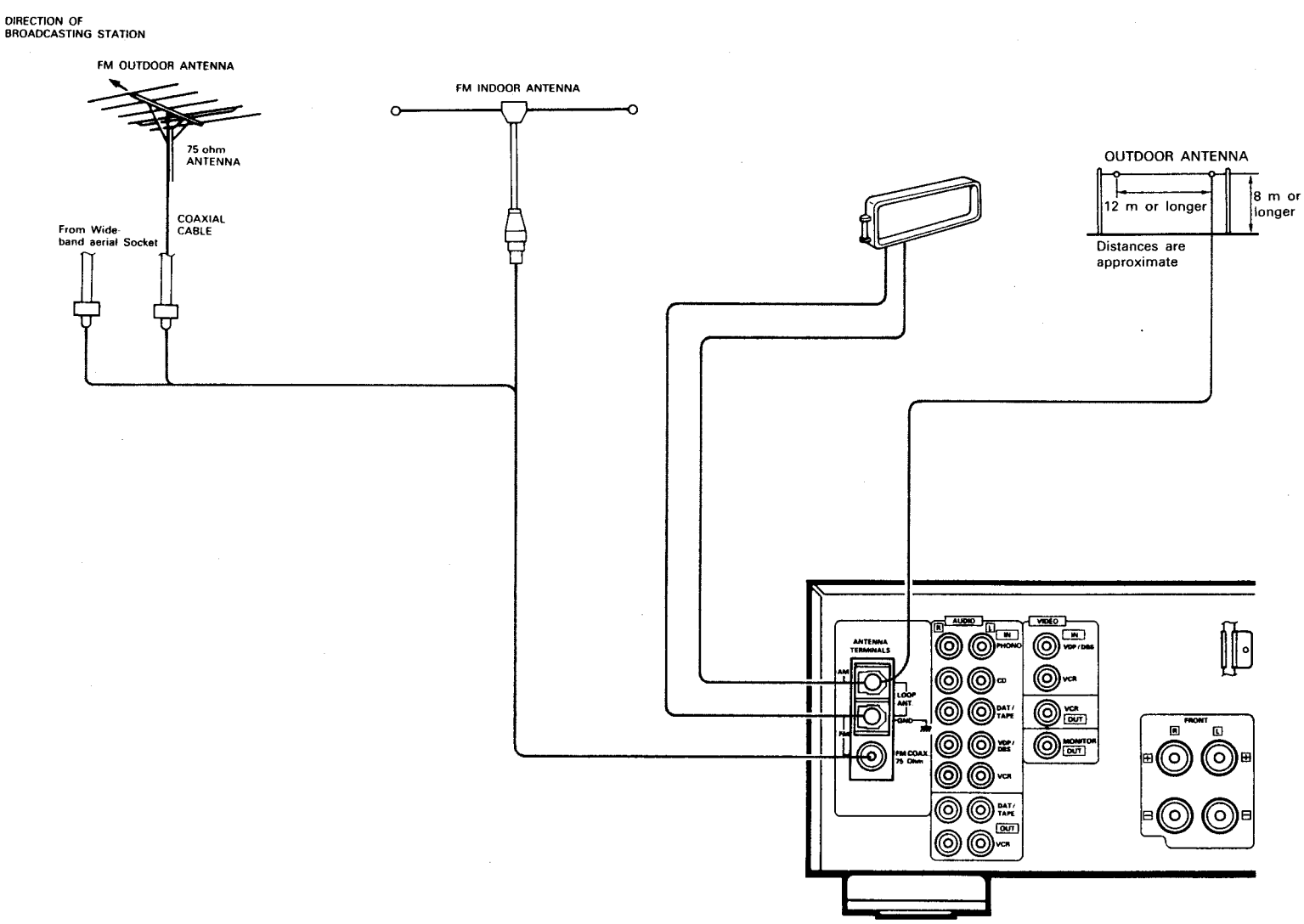
Press the PANEL button on the remote control unit once again.



5 CONNECTIONS

- Always turn off the power of the various components when making connections. Also refer to the operating instructions for the other components.
- Do not plug in the power cord until all connections are completed.

Connecting the antenna terminals



ANTENNA INSTALLATION

- **FM ANTENNA**

The supplied T-type indoor FM antenna (300 ohms) can be used inside wooden houses for receiving local FM stations and other strong FM signals. Stretch out the ends of the antenna and mount the antenna on the wall or ceiling where optimum reception is achieved. FM T-type antennas may not consistently ensure stable reception, due to environment changes. In such cases, the FM T-type antenna should only be used temporarily until an outdoor FM antenna has been installed.

When connecting an outdoor FM antenna, the use of 75 ohm coaxial cable (3C-2V, 5C-2V) is strongly recommended. Using a 300-ohm feeder cable will cause noise and you will not be able to achieve the high sound quality the built-in tuner is capable of delivering.

- **AM ANTENNA**

Attach the supplied AM loop antenna to the antenna holder on the back panel.

Connect the leads to the AM and GND terminals. Also use the AM terminals for connecting an outdoor AM antenna (when making such a connection do not detach AM loop antenna).

Adjust the loop antenna to obtain optimum reception. Where broadcast stations are distant and only weak signals are received, or where signals are blocked, it is best to install an outdoor AM antenna.

NOTES

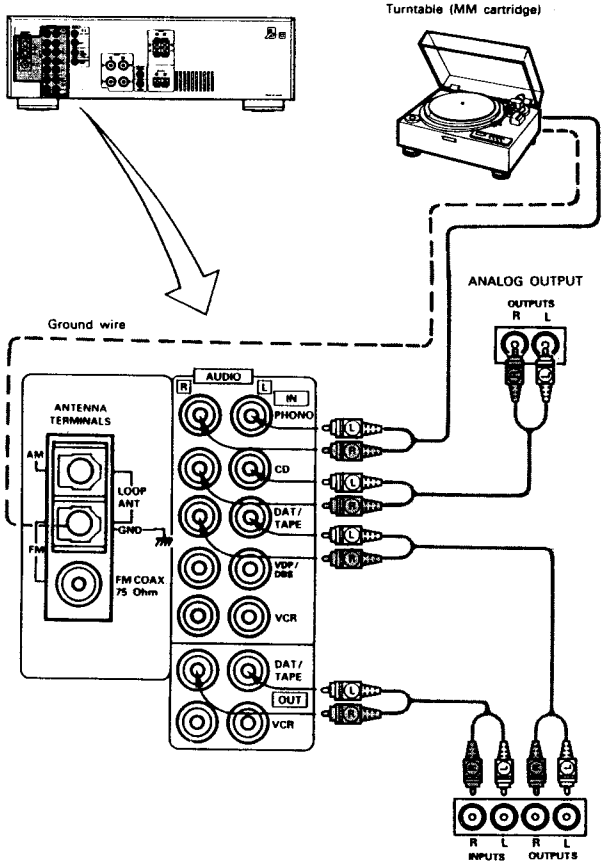
- This receiver has a full back-up system. When the power is turned on, the INPUT SELECTOR buttons are set to the last mode set before the power was turned off.
- When using this receiver in close proximity to video equipment (TV, VCR, VDP, etc.), noise may be generated in AM broadcasts. To avoid this, keep the receiver as far away from other video components as possible, or detach the AM loop antenna from the antenna holder and place it where noise is reduced. If the noise is not reduced, turn off the power of the video components when listening to AM broadcasts.

Note to CATV system installer:
This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

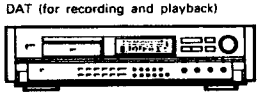
➡ Continued

Audio Section

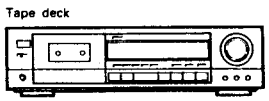
- Do not plug in the power cord until all connections have been completed.
- Be sure to connect the left and right channels properly (left with left, right with right).
- Insert the plugs securely. Incomplete connections will result in the generation of noise.
- Note that binding pin plug cords together with power cords or placing them near a power transformer will result in the introduction of hum or other noise.
- If hum or other noise is produced when the ground wire is connected, disconnect it.
- Noise or humming may be generated if a connected component is used independently without turning the power of the AVR-1000 on. If this happens, turn on the power of the AVR-1000.



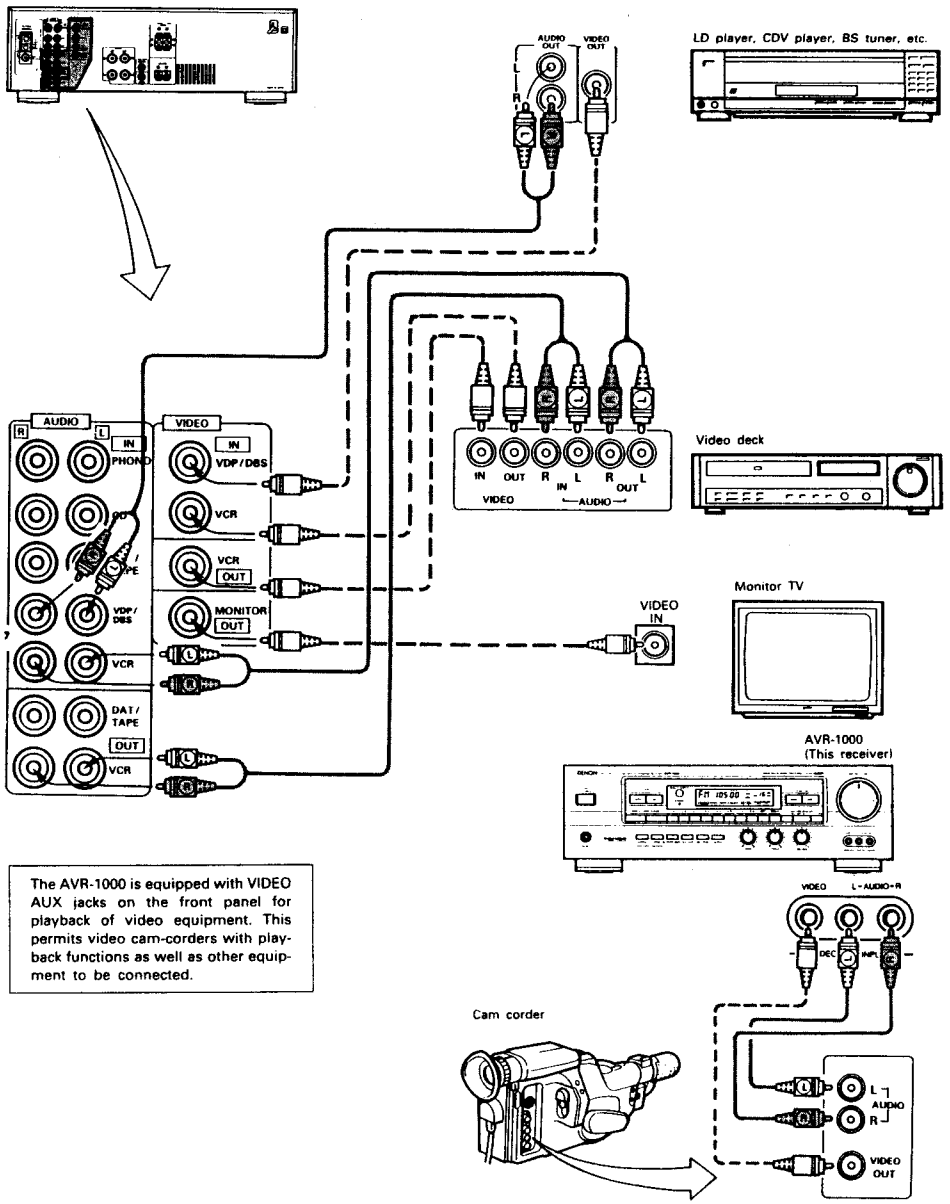
NOTE:
The receiver cannot be used with MC cartridges directly. Use a separate head amplifier or step-up transformer.



or



Video Section



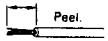
The AVR-1000 is equipped with VIDEO AUX jacks on the front panel for playback of video equipment. This permits video cam-corders with playback functions as well as other equipment to be connected.

Speaker System Connections

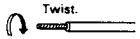
- This receiver can accommodate connections of a total of five speakers including one set of front speakers, one set of rear speakers, and one center speaker.
- Connect the speaker terminals with the speakers making sure that like polarities are matched (⊕ with ⊕, ⊖ with ⊖). Mismatching of polarities will result in weak central sound, unclear orientation of the various instruments, and the sense of direction of the stereo being impaired.
- When making connections, take care that none of the individual conductors of the speaker cord come in contact with adjacent terminals, with other speaker cord conductors, or with the rear panel.
- **Speaker Impedance**
  - Speakers with an impedance of 6 to 16 ohms can be connected for use as front, center and rear speakers.
  - Using speakers with an impedance other than the specified one may result in damage. Be sure to use speakers of the specified impedance.

Preparing the cord

1. Peel off the sheath.



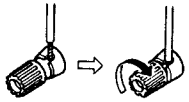
2. Twist the wires.



Connecting the front speaker terminals

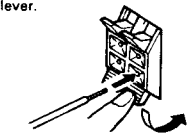
1. Loosen by turning counterclockwise.

2. Insert the cord and tighten by turning clockwise.

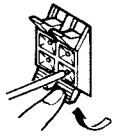


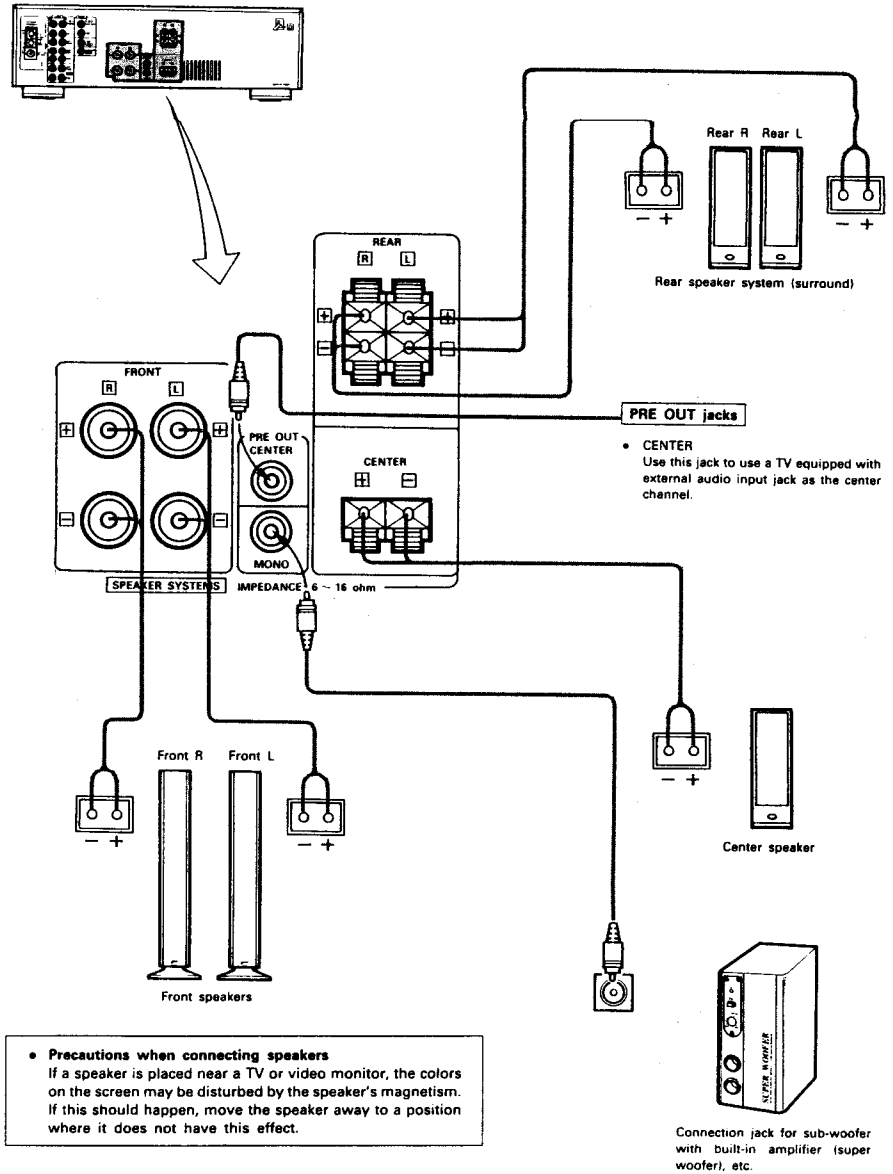
Connecting the center and rear speaker terminals.

1. Press the lever.



2. Insert the cord and release the lever.



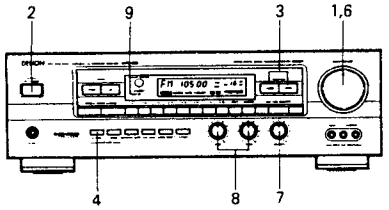


- **Precautions when connecting speakers**
  If a speaker is placed near a TV or video monitor, the colors on the screen may be disturbed by the speaker's magnetism. If this should happen, move the speaker away to a position where it does not have this effect.

6 PLAYBACK

■ Preparations for Playback

Check the connections
- Check that all connections are proper, referring to the connections diagrams (pages 8 to 10).

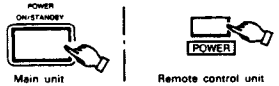


■ Playing the program source (normal stereo playback)

1. Set the MASTER VOLUME control to the minimum.

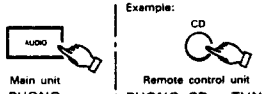
2. Press the POWER button to turn the power on.

   The muting mode is set for several seconds, after which the STANDBY LED ⓫ flashes for several seconds.



3. Select the source to be played.

Audio function button

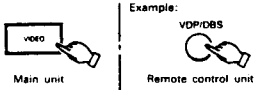


PHONO → CD → TUNER

The source switches as shown above MFD.

PHONO, CD or TUNER can be selected directly.

Video function button

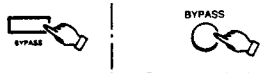


VDP/DBS → VCR → V-AUX

The source switches as shown above MFD.

VDP/DBS, VCR or V-AUX can be selected directly.

4. Press the BYPASS button.



5. Start playback of the program source. For instructions, refer to the source's operating instructions.

6. Adjust the volume.

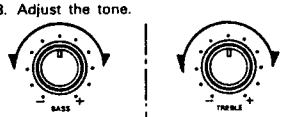
Turn the control clockwise to increase the volume, counterclockwise to decrease it.

Press the ∧ button to increase the volume, the ∨ button to decrease it.

7. Adjust the left/right balance.

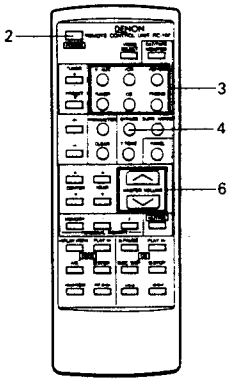
Turn the control counterclockwise to reduce the volume of the right channel, clockwise to reduce the volume of the left channel.

8. Adjust the tone.



Turn the control clockwise to increase the bass, counterclockwise to decrease it.

Turn the control clockwise to increase the treble, counterclockwise to decrease it.

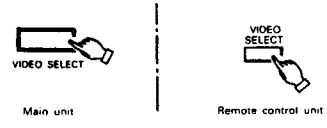


NOTE:
The sound may be interrupted if switches are operated during playback. This is because the muting circuit is activated to prevent switching noise.

■ Simulcast playback (playing different video and audio sources simultaneously)

1. Follow steps 1 to 3 under "Playing the program source".

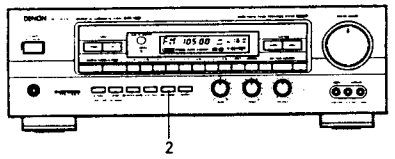
2. Select the desired video program source.



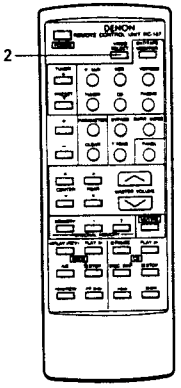
VDP/DBS → VCR → V-AUX

The source switches as shown above.

3. Follow steps 4 to 8 under "Playing the program source".



Cancelling simulcast playback
- Press the VIDEO SELECT button again.
- Press the video function button on the main unit or remote control unit.



■ Using the muting function

Use this to turn off the audio output temporarily.

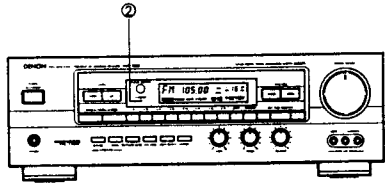
1. Press the MUTING button.

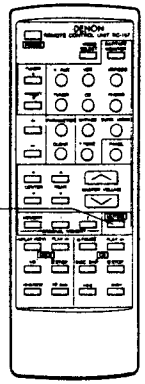
This function can only be set from the remote control unit.

The STANDBY LED ⓫ flashes when the muting function is set.

2. Press the MUTING button again.

   The muting function is cancelled.





7 RECORDING

■ Recording the program source
(recording the source currently being monitored)

1. Follow steps 1 to 3 under "Playing the program source".
2. Start recording on the tape or video deck.
   For instructions, refer to the component's operating instructions.

NOTES:
1. The audio signals selected with the audio or video function button are output from the DAT/TAPE REC OUT jacks.
2. The recording source switches if the audio function, video function, personal memory "1" or "2" or tuner preset buttons are pressed during recording. Do not press these buttons during recording.

Simultaneous recording
The signals of the source selected with the function selector button are output simultaneously to the DAT/TAPE and VCR REC OUT jacks. If a total of two tape and/or video decks are connected and set to the recording mode, the same source can be recorded simultaneously on both decks.
In addition, if the TAPE MONITOR (DAT/TAPE) button is pressed, the audio signals from the tape deck are output to the VCR AUDIO REC OUT jacks.

8 TAPE MONITOR FUNCTION

■ When playing a DAT or tape deck

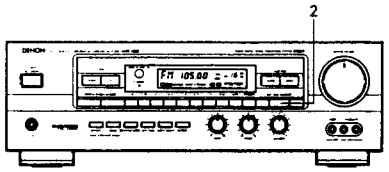
Use this function to switch between the DAT or tape deck and the input (source) selected with the audio or video function buttons.

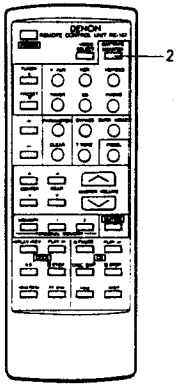
1. Follow steps 1 and 2 under "Playing the program source".
2. Select the deck to be played.

DAT/TAPE
↕
SOURCE

The source switches as shown at the left.

3. Follow steps 5 to 8 under "Playing the program source".





■ Monitoring the recording on a three-headed tape deck

The sound actually being recorded can be monitored during recording when a three-headed tape deck is used.

1. Select the deck to be monitored.

DAT/TAPE
↕
SOURCE

The source switches as shown at the left.

2. Follow steps 1 to 3 under "Playing the program source".
3. Start recording on the tape deck. For instructions, refer to the component's operating instructions.
4. Press the three-headed tape deck's source/tape button to monitor the recording.

NOTE:
- Also refer to the three-headed tape deck's operating instructions.

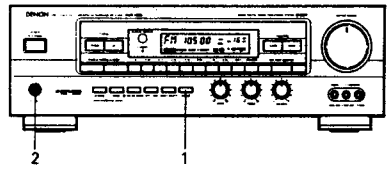
9 USING HEADPHONES

The sound from the speakers can be turned off using the OUTPUT button to listen to the sound over the headphones only, for example at night.

1. Press the OUTPUT button.

"H/P ONLY" appears on the MFD.

2. Insert the headphones' plug into the headphones' jack.

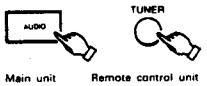


Cancelling
Either press the OUTPUT button again or press the POWER button to turn off the power.

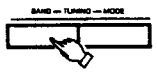
10 LISTENING TO THE RADIO

■ Tuning

1. Set the input function to "TUNER".

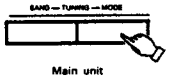


2. Select the reception band.



FM ↕ AM — There is a change as shown at the left, and indication ① inside the MFD changes.

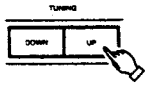
3. Select the tuning mode.



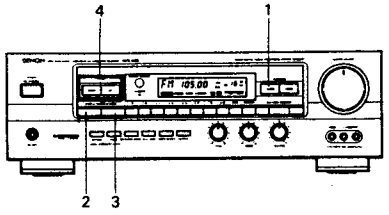
AUTO ↕ MANUAL — The mode switches as shown at the left. When the auto mode is set, "AUTO" lights on the MFD ④.

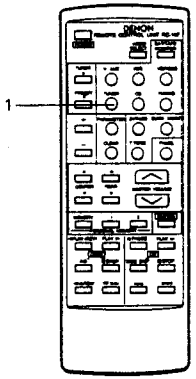
Set the auto mode for automatic tuning, the manual mode for manual tuning.

4. Tune in the station.

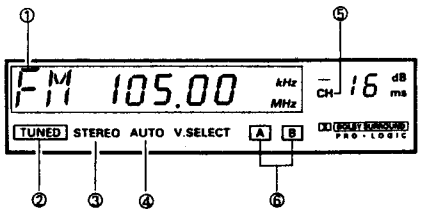


In the manual tuning mode:
Press the UP button once to increase the frequency by one step, the DOWN button once to decrease the frequency by one step.
The frequency changes continuously when the buttons are held in.
The "TUNED" indicator ② lights on the MFD when a station is tuned in.
In the auto tuning mode:
When the UP or DOWN button is pressed, automatic searching begins, and searching stops when a station is tuned in.





MFD display



NOTES:
- When in the auto tuning mode on the FM band, the "STEREO" indicator ③ lights on the MFD when a stereo broadcast is tuned in. At open frequencies, the noise is muted and the "TUNED" ② and "STEREO" ③ indicators turn off.
- When the manual tuning mode is set, FM stereo broadcasts are received in monaural and the "STEREO" indicator ③ turns off.

■ Storing stations at the preset buttons

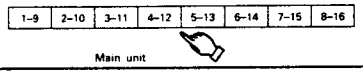
1. Follow steps 1 to 4 under "Tuning" to tune in a station.
2. Press the MEMORY button.

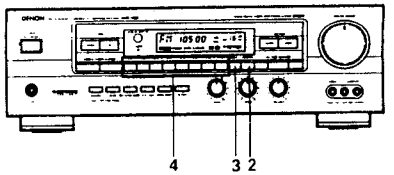
The "CH" ⑤ indicator on the MFD flashes.

3. Select the preset channels.

A ↕ B — The channels switch as shown at the left, and the MFD display ⑥ also changes.
When "A" is displayed, preset channels 1 to 8 can be preset, and when "B" is displayed, preset channels 9 to 16 can be preset.

4. Press the preset number that you want to store to memory.





NOTES:
- The preset memory standby mode is set for 6 seconds when the MEMORY button is pressed. When the MEMORY and SHIFT buttons are pressed, the preset memory standby mode is prolonged for 6 seconds. The preset memory standby mode turns off after 6 seconds.
- The preset memory standby mode is cancelled if any button other than preset buttons 1 to 8 (9 to 16), the MEMORY button or the SHIFT button is pressed.

■ Recalling stations with the preset buttons

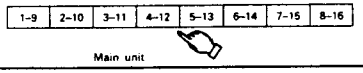
First store stations at the preset buttons using the above procedure.

1 Using the buttons on the main unit

1. Press the SHIFT button to select the preset channels.

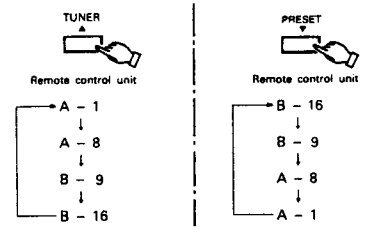
Preset channels 1 to 8 can be recalled when "A" is displayed, preset channels 9 to 16 when "B" is displayed.

2. Press the button for the station you want to recall.

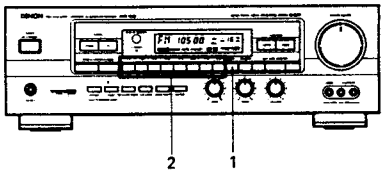


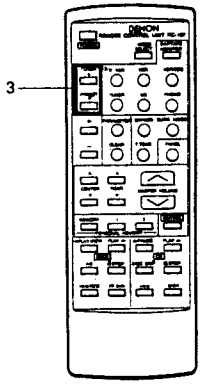
2 Using the buttons on the remote control unit

3. Press the PRESET △ and ▽ buttons.



The preset channel switches as shown above.





11 SURROUND PLAYBACK

■ DSP modes

The AVR-1000 is equipped with a DSP (Digital Signal Processor) for the surround processing of digital signals. The DSP lets you enjoy surround sound with a greater sense of reality to match the listening room or software.

- **Surround playback using the DSP:**
  In these mode, signals are output to the center and rear speakers as well for four- or five-channel playback.

The surround modes are as follows:

1	Dolby Pro Logic	Use this when playing program sources recorded in Dolby Surround.
2	Wide Screen	Use this to enjoy program sources with the atmosphere of a movie theater, recorded in Dolby Surround.
3	Live	Use this to enjoy program sources with the atmosphere of a live performance, recorded in Dolby Surround.
4	Mono movie	In this mode, a sense of expansion is added to monaural audio sources. This mode is best suited for playing old movies or movie tapes recorded in monaural.
5	Classic concert	This mode simulates the sound of a large concert hall. It is suited for classical music, etc.
6	Rock concert	This mode is best for playing rock, popular music, etc.
7	Stadium	This mode simulates the sound field of an outdoor stadium.

* **These effects may not be very pronounced for some sources. If this is the case, try other modes, not relying too much on their names, and find the mode you like best.**

* **To adjust the speaker balance for the different surround modes, first adjust for the Dolby Pro Logic Surround mode as explained on page 16, then use the position of the center level and rear level controls at this time as a guide to adjust the balance for that surround mode.**

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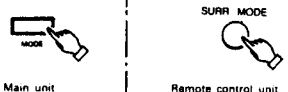
■ Using Dolby Pro Logic Surround

• Speaker disposition and the Dolby Pro Logic Center mode

Ideally, center speakers should be used when playing sources in Dolby Pro Logic Surround. Select the center mode according to your speaker system.

1. Set the Dolby Pro Logic mode.

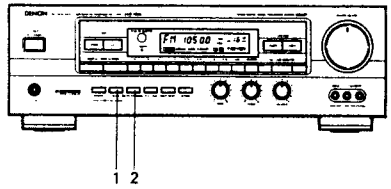


2. Select the ◫ center mode.

Main unit

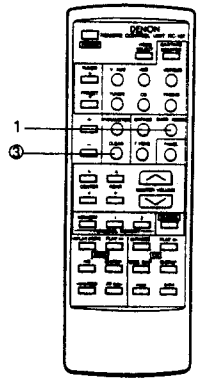
NORMAL ⟶ PHANTOM ⟶ WIDE ⟶ NORMAL

The mode changes as shown above.

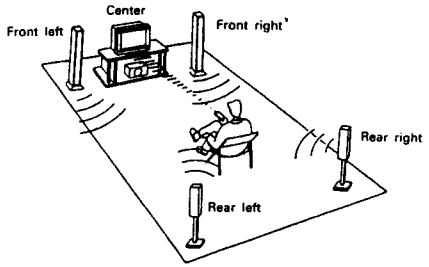


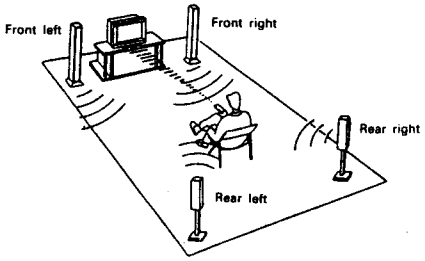
Also select the center mode according to your speaker system when using the Wide Screen and Live modes.

Once the center mode is set, there is no need to readjust it unless you change the speaker system or the listening room. However, when the CLEAR button ③ is pressed, the mode changes as shown on the table on Page 18. In this case, reset the center mode.



Center Mode





NORMAL mode

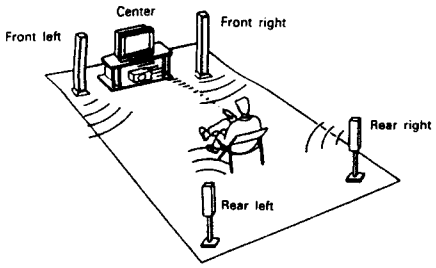
Normal mode: This mode is suited for an arrangement in which the center channel speaker is smaller than the left and right speakers. Signals below 100 Hz which have almost no effect on directional orientation are distributed to the left and right channels, whereas the center channel output signals greater than 100 Hz. As a result, the bass of the left and right channels increases the apparent deepness of the sound.

PHANTOM mode

Phantom mode: Use this mode when center channel speaker is not used. A directional emphasis circuit provides signal reproduction which is electrically oriented to the center and this provides an exciting sound field for your enjoyment.

➡ Continued

Center Mode



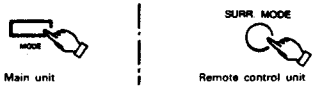
WIDE mode

Wide mode: This mode is suited for an arrangement in which the center channel speaker is of the same grade as the left and right speakers. The entire sound band from low region to high is output to the center channel to provide an exciting sound field for your enjoyment.

• Dolby 3CH. Logic (three-channel logic mode)

Select this mode when not using rear speakers.

1. Set the Dolby Pro Logic mode.



2. Press the 3CH. LOGIC button.

Main unit

3CH LOGIC ↕ PRO LOGIC

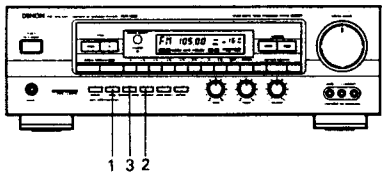
The mode changes as shown at the left.

3. Select the center mode according to your speaker system.

Main unit

NORMAL ⟷ WIDE

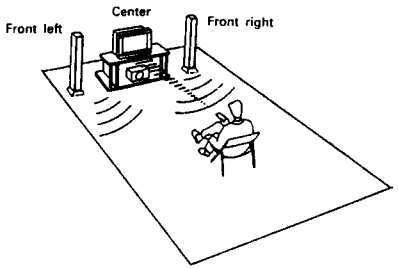
The mode changes as shown above.



NOTE:

The center mode cannot be set to the Phantom mode when the 3CH Logic mode is set.

3CH. LOGIC MODE

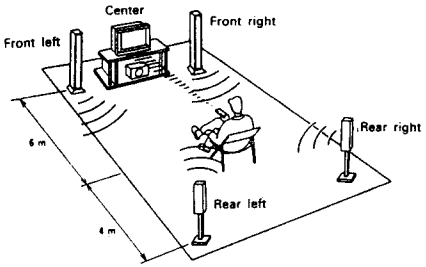


3CH LOGIC

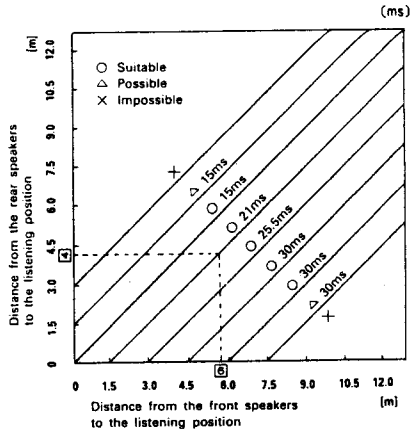
Three-channel logic mode: Use this mode when rear channel speakers are not used. The rear channel information is reproduced by the front speakers.

• Setting the delay time

The optimum delay time will differ depending on the listening position. Referring to the chart at right, set the optimum delay time for your room's space and seating position. For example, when the distance from the front speakers to the listening position is 6 m and that from the rear speakers to the listening position is 4 m, the optimum delay time will be 21 ms.
The variable range of the delay time differs depending on the mode.
For details about the variable range, see Page 17.



Listening position and optimum delay time for playback with Dolby Pro Logic surround

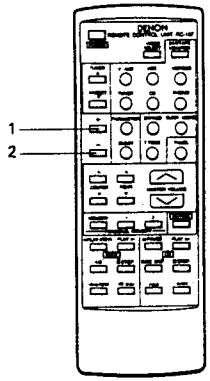


1. To increase the delay time:

Remote control unit

2. To decrease the delay time:

Remote control unit



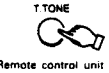
- The delay time can be set between the range of 15.0ms to 30ms in steps of 1.5ms.
- Once the delay time is set, there is no need to readjust it unless you change the speaker system or the listening room. However, when the CLEAR button is pressed, the mode changes as shown on the table on Page 18. In this case, reset the center mode.

• Speaker volume adjustment and Dolby Pro Logic mode

To obtain the maximum surround effect, use the test tones to adjust the volume and balance of the speakers for the best balance for the listening position and so that the sound from all the speakers is heard at the same level.

Auto mode

1. Press the T.TONE button.



Test tones are produced from the speakers in the order shown below, at 4 second intervals for the first two cycles, 2 second intervals after that.

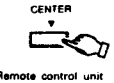
→ FL → C → FR → S →

For the Dolby 3CH Logic mode:

→ FL → C → FR →

2. To increase the level of the center **speaker:**

3. To decrease the level of the center **speaker:**

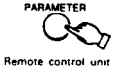


4. To increase the level of the rear speakers:

5. To decrease the level of the *rear* **speakers:**

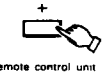
Manual mode

6. Switch to the manual mode.



Auto mode ⟷ manual mode
The mode switches as shown above.

7. To emit the test tones in the clockwise direction.



→ FL → C → FR → S →

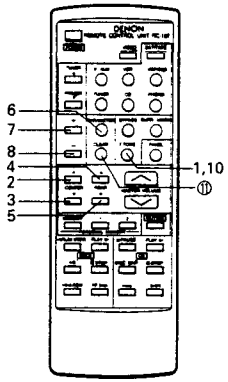
8. To emit the test tones in the counterclockwise direction.

← FL ← C ← FR ← S ←

9. Follow steps 2 to 5 for the auto mode to adjust the level of the different speakers.

Cancelling

10. Press the T.TONE button again.



NOTES:

- When the T.TONE button is pressed, the auto mode is set and test tones are produced starting from the front left channel.
- In the auto mode, the test tone will not move on to the next channel when it is being emitted from the center channel and the level of the center speakers is being adjusted, or when it is being emitted from the rear channel and the level of the rear speakers is being adjusted. It only moves on to the next channel approximately two seconds after the level key has been released.
- When the mode is switched from the auto mode to the manual mode, the test tone is emitted starting from the channel from which it was last being emitted in the auto mode.

The level of the center and rear channels can be adjusted from 0dB to −24dB in steps of 2dB.

Once the level of the center and rear channels is set, there is no need to readjust it unless you change the speaker system or the listening room. However, when the CLEAR ⑪ button is pressed, the mode changes as shown on the table on Page 18. In this case, reset the center mode.

In other surround modes, adjust the balance based on the adjustment made in the Dolby Pro Logic mode. The balance may not be optimum for some sources, so readjust it as necessary.

■ Other DSP Surround Modes

• Using the directivity emphasis circuit and DSP surround

Use this to play sources recorded in Dolby Stereo and Dolby Surround with even greater power.
(The directivity emphasis circuit detects the signals with the dominant direction from the level and phase of the left and right channels and produces a sharp acoustic image and sense of direction.)

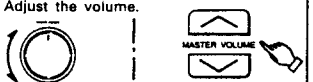
1. When playing movies, set the Wide Screen mode.
When playing music, set the Live mode.

⇨ WIDE SCREEN ← PRO LOGIC ← STADIUM
⇨ LIVE ↑ ROCK
MONO MOVIE → CLASSIC

2. Set the center mode.
Set to the center mode set in the Dolby Pro Logic mode.

3. Start playing the movie or music.

4. Adjust the volume.



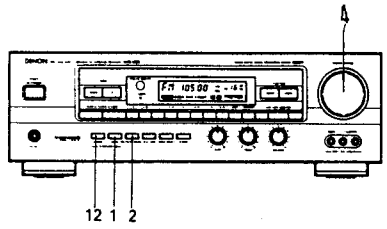
5. Adjust the level of the center and rear channels.
Adjust the levels according to the source, using the Dolby Pro Logic settings as reference.

Adjusting the delay time

6. Select the delay time mode.

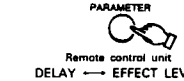
DELAY ⟷ EFFECT LEVEL
The parameter switches as shown above.

7. Set the delay time following the procedure on Page 15.



Adjusting the effect level

8. Select the effect level mode.



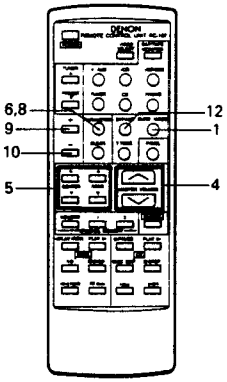
DELAY ⟷ EFFECT LEVEL
The parameter switches as shown above.

9. To increase the effect level.

10. To decrease the effect level.

Other adjustments

11. Follow steps 6 to 8 under "Playing the program source". on Page 11.



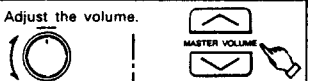
• DSP surround playback

1. Select the desired surround mode.

⇨ MONO MOVIE ← LIVE
⇨ CLASSIC ↑ WIDE SCREEN
⇨ ROCK ↑ PRO LOGIC
⇨ STADIUM →

3. Play the desired software.

4. Adjust the volume.



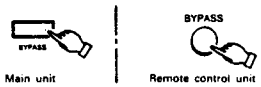
5. Adjust the level of the rear channel.
Adjust the level according to the source, using the Dolby Pro Logic settings as reference.

8. Adjust the effect level.
Adjust the level in the same way as for the Wide Screen mode above.

11. Follow steps 6 to 8 under "Playing the program source" on Page 11.

To turn off the surround mode

12. Press the BYPASS button.



Normal stereo playback resumes.

■ Using the Personal Memory

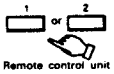
Surround mode settings and the input function can be stored at personal memory buttons "1" and "2", then recalled directly from any surround mode simply by pressing button "1" or "2".

[1] Storing the setting in the personal memory

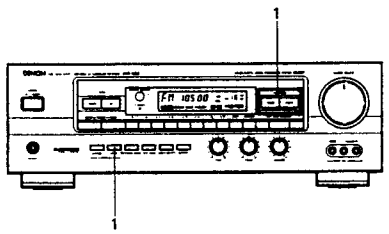
1. Set the desired surround mode and input function.
2. Press the personal memory button.

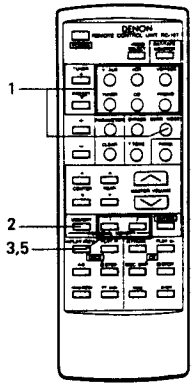
(The memory setting mode is set and the indicator on the MFD flashes.)

3. Press the desired personal memory button ("1" or "2").



4. "M 1 (2) SET" appears on the MFD indicating that the setting has been stored.

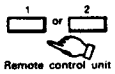




NOTE:
- The memory setting mode is set for 6 seconds. If any button other than personal memory button "1" or "2" is pressed, the memory setting mode is cancelled.

[2] Recalling the personal memory

5. Press the personal memory button ("1" or "2") at which the desired setting was stored.



6. The surround mode and input function switch automatically.

NOTES:
- Personal memory buttons "1" and "2" will not function during the tape monitor mode.
- The surround mode recalled with the PERSONAL MEMORY "1" or "2" button is the same as the mode selected with the surround mode button. Thus, if the parameters of the surround mode which was stored in the memory are cleared, when the mode is recalled it is set to the initial values.
- Upon shipment from the factory, the "WIDE SCREEN" mode is stored at personal memory "1", the "LIVE" mode at personal memory "2". The input function is set to VDP/DBS for both "1" and "2".
- Do not press personal memory buttons "1" or "2" buttons during recording on the cassette deck.

■ Operations Possible in the Various Surround Modes

The following is a list of the buttons and functions which can be operated during the different surround modes. Figures in parentheses indicate adjustment ranges.

		OUTPUT	CENTER LEVEL	REAR LEVEL	CENTER MODE	3CH LOGIC	TEST TONE	DELAY TIME
BYPASS		○	×	×	△*1	×	×	×
DOLBY PRO LOGIC	NORMAL	○	○ (0~–24dB)	○ (0~–24dB)	○	○	○	○ (15~30ms)
	PHANTOM	○	×	○ (0~–24dB)	○	×	○	○ (15~30ms)
	WIDE	○	○ (0~–24dB)	○ (0~–24dB)	○	○	○	○ (15~30ms)
DOLBY 3CH LOGIC	NORMAL	○	○ (0~–24dB)	×	○	○	○	×
	WIDE	○	○ (0~–24dB)	×	○	○	○	×
WIDE SCREEN & LIVE	NORMAL	○	○ (0~–24dB)	○ (0~–24dB)	○	×	×	○ (6~30ms)
	PHANTOM	○	×	○ (0~–24dB)	○	×	×	○ (6~30ms)
	WIDE	○	○ (0~–24dB)	○ (0~–24dB)	○	×	×	○ (6~30ms)
MONO MOVIE		○	×	○ (0~–24dB)	△*1	×	×	×
CLASSIC CONCERT		○	×	○ (0~–24dB)	△*1	×	×	×
ROCK CONCERT		○	×	○ (0~–24dB)	△*1	×	×	×
STADIUM		○	×	○ (0~–24dB)	△*1	×	×	×

		EFFECT LEVEL	CLR	PERSONAL*2		DAT/TAPE
				"MEMORY"	"1" & "2"	MONITOR
BYPASS		×	○	×	○	○
DOLBY PRO LOGIC	NORMAL	×	○	○	○	○
	PHANTOM	×	○	○	○	○
	WIDE	×	○	○	○	○
DOLBY 3CH LOGIC	NORMAL	×	○	○	○	○
	WIDE	×	○	○	○	○
WIDE SCREEN & LIVE	NORMAL	○ (5~15)	○	○	○	○
	PHANTOM	○ (5~15)	○	○	○	○
	WIDE	○ (5~15)	○	○	○	○
MONO MOVIE		○ (5~15)	○	○	○	○
CLASSIC CONCERT		○ (5~15)	○	○	○	○
ROCK CONCERT		○ (5~15)	○	○	○	○
STADIUM		○ (5~15)	○	○	○	○

○: Operation possible
×: Operation not possible

*1 Switches to the Dolby Pro (3CH) Logic mode for any modes other than Dolby Pro (3CH) Logic, Wide Screen and LIVE.
*2 Personal memory buttons MEMORY"1" and "2" will not function during the DAT/tape monitor mode.

- **The sound may be distorted for some sources if the rear level or effect level is raised during surround playback. If this happens, lower the rear level and effect level.**

[12] LAST FUNCTION MEMORY

- This receiver is equipped with a last function memory which stores the input and output setting conditions as they were immediately before the power is switched off.
  This function eliminates the need to perform complicated resettings when the power is switched on.
- This receiver is also equipped with a back-up memory. This function provides approximately one week of memory storage with the power cord disconnected.

13 TROUBLESHOOTING

If a problem should arise, first check the following:
1. **Are the connections correct?**
2. **Have you operated the amplifier according to the Operating Instructions?**
3. **Are the speakers, *turntable, and other components operating properly?***

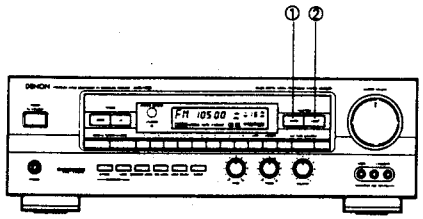
If the receiver is not operating properly, check the items listed in the table below. Should the problem persist, there may be a malfunction. Disconnect the power immediately and contact your store of purchase.

	Symptom	Cause	Measures	Page
Common problems arising when listening to the CD, records, tapes, and FM broadcasts, etc.	MFD not lit and sound not produced when power switch set to on.	• Power cord not plugged in securely.	• Check the insertion of the power cord plug.	5
	MFD lit but sound not produced.	• Speaker cords not securely connected. • OUTPUT button is off. • Improper position of the audio function button. • Volume control set to minimum. • MUTING is on.	• Connect securely. • Press the OUTPUT button. • Set to a suitable position. • Turn volume up to suitable level. • Switch off MUTING.	10 12 11 11 11
	–PROTECT– display appears multi-function display.	• Speaker terminals are short-circuited. • Block the ventilation holes of the set. • The unit is operating at continuous high power conditions and/or inadequate ventilation.	• Switch power off, connect speakers properly, then switch power back on. • Turn off the set's power, then ventilate it well to cool it down. Once the set is cooled down, turn the power back on. • Turn off the set's power, then ventilate it well to cool it down. Once the set is cooled down, turn the power back on.	10 2, 6 2, 6
	Sound produced only from one channel.	• Incomplete connection of speaker cords. • Incomplete connection of input/output cords. • Left/right balance is off.	• Connect securely. • Connect securely. • Adjust balance knob properly.	10 8~9 11
	Positions of instruments reversed during stereo playback.	• Reverse connections of left and right speakers or left and right input/output cords.	• Check left and right connections.	9~10
	Sound seems distorted.	• Effect level parameter is high. • Rear level is too high.	• Set the effect level parameter to lower level. • Set the rear level to lower level.	16 16
	Sound seems strange.	• DSP parameter settings are poor.	• Press the CLEAR button then adjust the DSP parameters.	16 ,18
	Personal memory function does not work.	• DAT/tape monitor mode set.	• Press the DAT/TAPE button to set the source.	12
When playing records	Humming noise produced when record is playing.	• Ground wire of turntable not connected properly. • Incomplete PHONO jack connection. • TV or radio transmission antenna nearby.	• Connect securely. • Connect securely. • Contact your store of purchase.	9 9 –
	Howling noise produced when volume is high.	• Turntable and speaker systems too close together. • Floor is unstable and vibrates easily.	• Separate as much as possible. • Use cushions to absorb speaker vibrations transmitted by floor. If turntable is not equipped with insulators, use audio insulators (commonly available).	– –
	Sound is distorted.	• Stylus pressure too weak. • Dust or dirt on stylus. • Cartridge defective.	• Apply proper stylus pressure. • Check stylus. • Replace cartridge.	– – –
	Volume is weak.	• MC cartridge being used.	• Replace with MM cartridge or use a head amplifier or step-up transformer.	9
Remote control unit	Receiver does not operate properly when remote control unit is used.	• Batteries dead. • Remote control unit too far from receiver. • Obstacle between receiver and remote control unit. • Different button is being pressed. • (+) and (–) ends of battery inserted in reverse.	• Replace with new batteries. • Move closer. • Remove obstacle. • Press the proper button. • Insert batteries properly.	7 7 7 7

14 INITIALIZATION OF THE MICROPROCESSOR

When the indication of the MFD display is not normal or when the operation of the unit does not shows the reasonable result, the initialization of the microprocessor is required by the following procedure.
1. Switch off the unit and remove the AC power cord from the wall outlet.
2. Hold the following 2 buttons of the main unit at the same time (as illustrated in the diagram below, ① AUDIO FUNCTION button, ② VIDEO FUNCTION button, and plug the power cord into the outlet.
3. Check that the entire MFD display is flashing with an interval of about 1 second, and release your fingers from the 2 buttons.
4. Switch on the unit and the microprocessor will be initialized. The input function is set to tuner with the bypass mode automatically.

NOTE:
- When the unit does not show the result of above 3 and 4, repeat the procedure from 1 again.
- When the microprocessor is initialized, all settings you have made are reset to the factory presettings.



Initial parameter values for the different modes

	OUTPUT	FRONT SP	CENTER SP/PRE	REAR SP	CENTER LEVEL	REAR LEVEL	CENTER MODE	3CH LOGIC	TEST TONE	DELAY TIME	EFFECT LEVEL
BYPASS	ON	ON	OFF	OFF	—	—	—	—	—	—	—
DOLBY PRO LOGIC	ON	ON	ON	ON	–12dB	–12dB	NORMAL	OFF	OFF	21msec	—
WIDE SCREEN	ON	ON	ON	ON	–12dB	–12dB	NORMAL	—	—	21msec	10
LIVE	ON	ON	ON	ON	–12dB	–12dB	NORMAL	—	—	21msec	10
MONO MOVIE	ON	ON	OFF	ON	—	–12dB	—	—	—	—	10
CLASSIC CONCERT	ON	ON	OFF	ON	—	–12dB	—	—	—	—	10
ROCK CONCERT	ON	ON	OFF	ON	—	–12dB	—	—	—	—	10
STADIUM	ON	ON	OFF	ON	—	–12dB	—	—	—	—	10

SP: SPEAKER OUT
PRE: PRE OUT

- INPUT FUNCTION : TUNER
- Reception band : FM
- Reception mode : AUTO
- Reception frequency : 87.50MHz

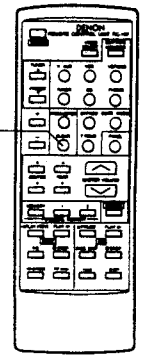
- PERSONAL MEMORY 1
  INPUT : VDP/DBS
  SURROUND MODE : WIDE SCREEN
- PERSONAL MEMORY 2
  INPUT : VDP/DBS
  SURROUND MODE : LIVE

■ Initialization of the Individual Modes

Use this to set the adjusted values back to the factory preset values.

1. Press the CLEAR button.

The values for the currently selected mode only are reset to the values shown on the above table.



15 SPECIFICATIONS

- **Audio Section**

(Power amplifier)	Front (main 2ch driven)
Rated output:	70 W + 70 W (8 ohms, 20 Hz – 20 kHz with 0.08% THD)
(All properties shown are	CENTER (center 1ch driven)
only for the power	70 W (8 ohms, 20 Hz – 20 kHz with 0.08% THD
amplifier stage.)	REAR (rear 2ch driven)
	20 W + 20 W (8 ohms, 1 kHz with 0.1% THD)
Output terminals:	Front: 6 to 16 ohms
	Center: 6 to 16 ohms
	Rear: 6 to 16 ohms
Line input (Each line input – FRONT SP OUT)	
Input sensitivity / impedance:	150 mV/47 k ohms PHONO (MM): 2.5 mV / 47 kohms
Frequency response:	10 Hz to 50 kHz: ±3 dB
Tone control range:	BASS: ±10 dB at 100 Hz
	TREBLE: ±10 dB at 10 kHz
Signal-to-noise ratio	92 dB
Phono equalizer (PHONO input – REC OUT)	
RIAA deviation:	±1 dB (20 Hz to 20 kHz)
Signal-to-noise ratio:	74 dB (A weighting, with 5 mV input)
Rated output / Maximum output:	150 mV/8 V
Distortion factor:	0.03% (1 kHz, 1 V)

- **Tuner Section**

[FM] (note: μV at 75 ohms, 0 dBf = 1 × 10^{-15} W)	
Receiving Range:	87.50 MHz ~ 108.00 MHz
Usable Sensitivity (DIN):	0.9 μV (DIN)
50 dB Quieting Sensitivity:	MONO 1.6 μV
	STEREO 23 μV
Signal to Noise Ratio (IHF-A):	MONO 80 dB
	STEREO 75 dB
Total Harmonic Distortion	MONO 0.4%
(at 1 kHz):	STEREO 0.5%
[AM]	
Receiving Range:	522 kHZ ~ 1611 kHz
Usable Sensitivity:	18 μV
Signal to Noise Ratio:	50 dB

- **Video Section**

Standard video jacks	
Input and output level / impedance:	1 Vp-p/75 ohms
Frequency response:	3 Hz to 8 MHz +1, –3 dB

- **General**

Power supply:	AC 230 V, 50 Hz (for Europe model)
	AC 240 V, 50 Hz (for U.K. model)
Power consumption:	230 W
Maximum external dimensions:	434 (W) × 142 (H) × 337 (D) mm (17-3/32" × 5-19/32" × 13-17/64")
Weight:	9.6 kg (21 lbs 3 oz)

- **Remote control unit**

System remote control
RC-167:

Total buttons:	41
DENON system code	
CD player:	6 buttons
Cassette deck:	6 buttons
AVR-1000 fixed codes:	29 buttons
Batteries:	R6P/AA Type (two batteries)
External dimensions:	60 (W) × 175 (H) × 18 (D) mm (2-23/64" × 6-57/64" × 45/64")
Weight:	120 g (Approx. 4 oz) (including batteries)

* For purposes of improvement, specifications and design are subject to change without notice.

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■ **Wir begrüßen Ihren Kauf des AVR-1000 außerordentlich.**
■ **Lesen Sie sich diese Bedienungsanleitung sorgfältig durch und bedienen Sie die Anlage richtig, damit Sie alle Merkmale, die der AVR-1000 zu bieten hat, maximal ausnutzen können. Bewahren Sie diese Bedienungsanleitung gut auf, so daß sie Ihnen bei eventuell auftretenden Fragen oder Störungen, jederzeit als Referenz zur Verfügung steht.**

• ZUBEHÖRTEILE

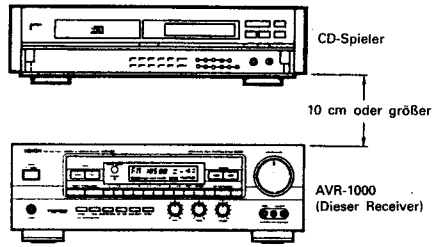
Überprüfen Sie, daß die nachfolgend aufgeführten Teile der Lieferung des Hauptgerätes beiliegen:

① Bedienungsanleitung 1 ② Garantiekarte 1
③ Fernbedienungsgerät (RC-167) ..... 1 ④ R6P-/AA-Batterien ..... 2 ⑤ MW-Rahmenantenne 1 ⑥ UKW-Innenantenne 1

• VORKEHRRUNGEN ZUR INSTALLATION

Wenn Sie diesen Receiver oder ein anderes elektronisches Gerät, das Mikroprozessoren beinhaltet, zusammen mit einem Tuner oder einem Fernsehgerät benutzen, so können daraus Ton- oder Bildstörungen resultieren.
Führen Sie in einem derartigen Fall die nachfolgend aufgeführten Schritte aus:
- Installieren Sie den Receiver so weit wie möglich entfernt vom Tuner oder Fernsehgerät.
- Halten Sie die Antennenleitungen des Tuners oder Fernsehgerätes so weit wie möglich vom Netzkabel und von den Anschlußkabeln des Receivers fern.
- Dieses Problem tritt besonders häufig bei der Verwendung von Innenantennen oder 300 Ohm Antennenzuleitungen auf. Wir empfehlen die Verwendung von 75 Ohm Koaxialkabeln.

Hinweis zum Aufeinanderstellen von Geräten



Stellen Sie kein anderes AV-Gerät direkt auf den Receiver, damit eine ausreichende Belüftung gewährleistet ist. Achten Sie darauf, daß stets ein Zwischenraum von mindestens 10 cm gegeben ist.

15 SPECIFIKATIONER

• **Audiodel**

(Effektslutsteg)	Främre kanaler (de 2 huvudkanalerna drivna)	
Nominell uteffekt:	70 W + 70 W (8 ohm, 20 Hz – 20 kHz med 0,08% THD)	
(De visade egenskaperna gäller	CENTER (en mittkanal driven)	
endast effektslutsteget.)	70 W (8 ohm, 20 Hz – 20 kHz med 0,08% THD)	
	REAR (2 bakre kanaler drivna)	
	20 W + 20 W (8 ohm, 1 kHz med 0,1% THD)	
Högtalarutgångar:	Främre: 6 till 16 ohm	
	Mitt: 6 till 16 ohm	
	Bakre: 6 till 16 ohm	
Linjeingång (alla linjeingångar – FRONT SP OUT)		
Insignalkänslighet / inimpedans:	150 mV/47 kohm	PHONO (MM): 2,5 mV/47 kohm
Frekvensgång:	10 Hz till 50 kHz:	±3 dB
Tonkontroller:	BASS:	±10 dB vid 100 Hz
	TREBLE:	±10 dB vid 10 kHz
Signal / brusförhållande:	92 dB	
Phono equalizer (PHONO-ingång – REC OUT)		
RIAA-avvikelse:	±1 dB (20 Hz till 20 kHz)	
Signal / brusförhållande:	74 dB (A vägt, med 5 mV insignal)	
Nominell / max utsignal:	150 mV/8 V	
Distorsionsfaktor:	0,03% (1 kHz, 1 V)	

• **Tunerdel**

[FM] **(obs:** µV vid 75 ohm, 0 dBf = 1×10^{-15} W)

Mottagningsomfång:	87,50 MHz ~ 108,00 MHz	
Användbar känslighet (DIN):	0,9 µV (DIN)	
50 dB dämpkänslighet:	MONO	1,6 µV
	STEREO	23 µV
Signal/brusförhållande (IHF-A):	MONO	80 dB
	STEREO	75 dB
Total harmonisk distorsion	MONO	0,4%
(vid 1 kHz):	STEREO	0,5%

[AM]

Mottagningsomfång:	522 kHZ ~ 1611 kHz
Användbar känslighet:	18 µV
Signal/brusförhållande:	50 dB

• **Videodel**

Standardkontakter	
In- och utnivå / impedans:	1 Vt-t/75 ohm
Frekvensgång:	3 Hz till 8 MHz +1, –3 dB

• **Allmänt**

Nätspänning:	230 V växelspänning, 50 Hz (Europeisk modell)
	240 V växelspänning, 50 Hz (Storbritannien modell)
Effektförbrukning:	230 W
Största yttermått:	434 (B) × 142 (H) × 337 (D) mm
Vikt:	9,6 kg

• **Fjärrkontrollen**
System-fjärrkontroll
RC-167:

Tangenter totalt:	41
DENON systemkoder	
CD-spelare:	6 tangenter
Kassettdäck:	6 tangenter
AVR-1000 fasta koder:	29 tangenter
Batterier:	R6P/AA (två stycken)
Yttermått:	60 (B) × 175 (H) × 18 (D) mm
Vikt:	120 g (inklusive batterier)

* Av produktförbättringsskäl kan specifikationer och utförande ändras utan föregående meddelande.

DENON SERVICE NETWORK

- **Please contact one of our overseas service centers, listed below, for follow-up service consultation.**
- **Wenden Sie sich für anfallende Wartungs- bzw. Reparaturarbeiten bitte an eine der folgend aufgeführten Kundendienststellen.**
- **Adressez-vous à nos centres de service d'outre-mer indiqués ci-dessous, pour le service aprèsvente.**
- **Per il servizio dopo vendita rivolgete Vi al nostro centro di servizio estero appropriato della lista seguente.**
- **Para consultas de servicio porfavor dirigirse a cualquiera de nuestros centros de servicio en el extranjero, enlistados abajo.**
- **Neem kontakt op met één van onze reparatie-inrichtingen in het buitenland, waarvan hier een lijst volgt, voor na-service.**
- **Ta kontakt med nedan angivna servicecentraler för rådfrågning om servicearbeten efter försäljningen.**
- **Favor contactar um de nossos centros de serviços internacionais, abaixo listados, para consulta de serviços de acompanhamento.**

Australia	AWA Limited. 112-118 Talavera Road, North Ryde NSW 2113, Australia, Postal Locked Bag No. 12, North Ryde. Tel: (02) 888-9000, Fax: (02) 888-9310, Telex: AA 22692
Austria	Boyd U, Haas Electronic-Bauelemente Vertriebsges, mbH & Co., KG Rupertusplatz 3 A-1170 Wien Tel: 0222-460288
Belgium	Transtel-Sabima P.V.B.A. Harmoniestraat 13, 2018 Antwerpen 1, België Tel: 03-237-3607
Canada	Denon Canada Inc. 17 Denison Street, Markham Ontario, Canada L3R 1B5 Tel: 416-475-4085
Denmark	Audionord Danmark A/S. Vester Alle 7, 8000 Århus C. Tel: 86-128811
Finland	Suomen Hi-Fi Klubi OY Nylandsgatan 4-6, Helsingfors Tel: 0644401
France	Denon France S.A. 3 Boulevard Ney, 75018 Paris Tel: (1) 40 35 14 14
F.R. Germany	Denon Electronic GmbH Halskestraße 32,4030 Ratingen 1 Tel: 02102-4985-0
Greece	Kinotechniki Ass. 47 Stournara Str., Athens Tel: 3606 998
Hong Kong	Tai Lin Radio Service Ltd. 310 Nathan Road, Kowloon, Hong Kong Tel: K-855005-8
Iceland	Japis Ltd. Brautarholt 2, Box 396, 101 Reykjavik, Iceland Tel: 27133
Indonesia	PT Autoaccindo Jaya. Cideng Barat No. 7 Jakarta, Indonesia Tel: 6016599
Italy	Melchioni S.P.A. Via P. Colletta 37-20135 Milano Tel: 02-57941
Malaysia	Pertama Audio Sdn. Bhd. 44-46 Jalan SS 22/21 Damansara Jaya, 47400 Selangor, Malaysia Tel: 719 3957
Mexico	Labrador, S.A. de C.V. Zamora No. 154 Col. Condesa 06140 Mexico, D.F. Tel: 286 55 09 Fax: 286 34 62

Netherlands	Penhold B.V. Isarweg 6, 1043 AK Amsterdam Tel: 020-611-4957
New Zealand	Avalon Audio Corpn. Limited 119 Wellesley Street, Auckland 1, New Zealand Tel: 09-779-351, 09-775-370
Norway	Hi-Fi Klubben Box 70 Ankertorget, 0133 Oslo 1 Tel: 02-112218
Portugal	Videoacustica Qta. Do Paizinho-Armazém 5-Estrada De Circunvalação-Apart. 3127 1303 Lisboa Codex Tel: 2187004/2187096
Singapore	Pertama Audio Pte. Ltd. Alexandra Distripark Blk 4, No. 03-39 Pasir Panjang Road, Singapore 0511 Tel: 278-4411
Spain	Gaplasa S.A. Conde de Torroja, 24, 28022 Madrid Tel: 747-7777
Sweden	Sveriges Hi-Fi Klubb Box 5116, S-402 23 Göteborg, Tel: 031-200040
Switzerland	Diethelm & Co., AG. Eggbühlstrasse 28, 8052 Zürich Tel: 01-3013030
Taiwan R.O.C.	Taiwan Kolin Co., Ltd. 8th Fl., 83, Sec. 1, Chung-king S. Rd., Taipei, Taiwan R.O.C. Tel: (02) 314-3151 (20 Lines), Fax:(886) 02-3614037 Telex: 11102 TKOLIN
Thailand	Mahajak Development Co., Ltd. 6th FL., Mahajak Building, 46 Sukhuhvit 3 (Nananua), Klongteoy, Prakranong, Bangkok 10110 Tel: 256-0000
United Kingdom & Eire	Hayden Laboratories ltd. Hayden House, Chiltern Hill, Chalfont St. Peter Gerrards Cross, Bucks. SL9 9UG Tel: 0753-888447
U.S.A.	Denon America Inc. 222 New Road Parsippany, NJ07054, U.S.A., Tel: 201-882-7490, Fax: 201-575-1213

* If there is no service center in your local area, consult the outlet where the equipment was purchased.
* Falls sich in Ihrer Nähe keine Kundendienststelle befindet, wenden Sie sich an das Geschäft, wo das Gerät gekauft wurde.
* S'il n'y a aucun centre de service dans votre région, consultez votre revendeur.
* Se nella Vostra zona non c'è il centro di servizio, rivolgete Vi al negozio dove avete acquistato l'apparecchio.
* Si no hay centros de servicio en su área local, consulte en donde haya comprado su equipo.
* Als er in uw streek geen reparatie-inrichting is, neemt u kontakt op met de vestiging waar u de apparatuur gekocht heeft.
* Saknas servicecentral i närheten där du bor, bör kontakt tas medåterförsäljaren för apparaten.
* Se não existir um centro de serviços em sua área local, consulte o estabelecimento onde o equipamento foi adquirido.

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